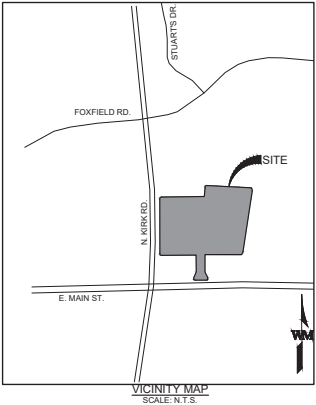


PRELIMINARY ENGINEERING PLANS
FOX HAVEN SQUARE
502 N. KIRK RD.
ST. CHARLES, IL 60174



SHEET INDEX	
SHEET NUMBER	Sheet Description
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS & DEMOLITION
4	PRELIMINARY SITE PLAN
5	PRELIMINARY GRADING PLAN
6	PRELIMINARY EROSION CONTROL
7	PRELIMINARY DRAINAGE PLAN
8	PRELIMINARY UTILITY PLAN
9	
10	

AGENCY CONTACT LIST

OWNER/DEVELOPER
GSI FAMILY INVESTMENTS
OF AZ, LLC
1307 SCHIFFER ROAD
BARTLETT, IL 60103
CONTACT: EDDIE GRECO

CIVIL ENGINEER
WARE MALCOMB
1315 22ND ST #410
OAK BROOK, IL 60523
630.218.0063
CONTACT: JON GRZYWA

ARCHITECT
WARE MALCOMB
1315 22ND ST #410
OAK BROOK, IL 60523
630.218.0063

PROJECT BENCHMARK

TBM #1	TBM #2
NORTHING: 1914551.22'	NORTHING: 1914454.48'
EASTING: 1000550.93'	EASTING: 1000115.86'
ELEVATION: 782.95'	ELEVATION: 782.82'
CF: 0.99994308	CF: 0.99994308

VALUES SHOWN HEREON ARE FROM NGS OPUS
SOLUTION REPORTS GENERATED FROM STATIC GPS
OBSERVATIONS, PERFORMED ON BOTH TEMPORARY
BENCHMARKS.
DATE OF OBSERVATION: 10/24/2023
HORIZONTAL DATUM: SPCS83 (1201 IL E)
VERTICAL DATUM: NAVD83 (GEOID18)

BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE BASED ON STATE PLANE
COORDINATES (1201 IL E), AS DETAILED IN NGS OPUS
SOLUTION REPORTS FOR TBM #1 & TBM #2.

LEGAL DESCRIPTION

THE FOLLOWING LOT LOCATED IN ST. CHARLES, KANE
COUNTY, ILLINOIS:

PARCEL 1:
LOT 4 IN STUART'S CROSSING RETAIL, BEING A
SUBDIVISION OF PART OF THE NORTHWEST 1/4 OF
SECTION 25, TOWNSHIP 40 NORTH, RANGE 8, EAST OF
THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE
PLAT RECORDED SEPTEMBER 15, 1998 AS DOCUMENT
98K083752, IN KANE COUNTY, ILLINOIS.

PARCEL 2:
RIGHTS FOR BENEFIT OF PARCEL 1 CREATED BY AND
GRANTED IN THE CONSTRUCTION, OPERATION AND
RECIPROCAL EASEMENT AGREEMENT ("REA") RECORDED
SEPTEMBER 11, 1998 AS DOCUMENT 98K083752 FOR THE
PURPOSE OF (1) PARKING OF PASSENGER VEHICLES (2)
VEHICULAR AND PEDESTRIAN PASSAGE (3) CONNECTION
WITH AND USE OF WATER, SANITARY AND STORM
WATER, TELEPHONE, ELECTRIC LINES, CONDUITS,
TRANSMISSION AND OTHER SIMILAR UTILITY FACILITIES
AND (4) DRAINAGE OF STORM WATER.

SURVEY INFORMATION

THESE PLANS AND THE ABOVE INFORMATION ARE BASED
ON A PRELIMINARY SURVEY BY AMERICAN SURVEYING &
MAPPING, INC. PROVIDED TO WARE MALCOMB ON
11/02/2023.



WARE MALCOMB assumes no responsibility for utility locations.
The utilities shown on this drawing have been plotted from the
best available information. It is, however, the contractor's
responsibility to field verify the location of all utilities prior to the
commencement of any construction.

ABBREVIATIONS

AB	AGGREGATE BASE	OC	ON CENTER
AC	ASPHALT CONCRETE	PB	PULL BOX
BFV	BACK FLOW VALVE	PCC	PORTLAND CEMENT CONCRETE
CF	CURB FACE	PLR	PROPERTY LINE
CLR	CENTERLINE	PVC	POLYVINYL CHLORIDE PIPE
CO	CLEANOUT	R	RADIUS
DF	DEEPEND FOOTING	(RAD)	RADIAL BEARING
DIP	DUCTILE IRON PIPE	RCF	REINFORCED CONCRETE PIPE
EG	EXISTING GRADE	R/W, ROW	RIGHT OF WAY
EL	ELEVATION	SDISTRM	STORM DRAIN
EOA	EDGE OF ASPHALT	STA	STATION
ESMT	EASEMENT	SS/SAN	SANITARY SEWER
EX	EXISTING	TG	TOP OF GRATE
FDC	FIRE DEPARTMENT CONNECTION	SW	SIDE WALK
FES	FLARED END SECTION	TBC	TOP BACK OF CURB
FG	FINISHED GRADE	TRI	TOP FACE OF INLET
FH	FIRE HYDRANT	TC	TOP OF CURB
FFFFE	FINISH FLOOR ELEVATION	TOP	TOP OF PIPE
FG	FINISHED GRADE	TOW	TOP OF WALL
FGW	FINISH GRADE AT WALL	TYP	TYPICAL
FLR	FLOW LINE	VIF	VERIFY IN FIELD
FS	FINISHED SURFACE	WM	WATER METER
GB	GRADE BREAK	WSEL	WATER SURFACE ELEVATION
GBW	GRADE AT BOTTOM OF WALL	WV	WATER VALVE
GTW	GRADE AT TOP OF WALL		
GM	GAS METER		
GV	GAS VALVE		
HP	HIGH POINT		
LP	LOW POINT		
INV	INVERT		
LF	LINEAR FEET		
ME	MATCH EXISTING		
MH	MANHOLE		
NG	NATURAL GROUND		

WARE MALCOMB
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waremalcomb.com

FOR AND ON BEHALF
OF WARE MALCOMB

FOX HAVEN SQUARE
PRELIMINARY ENGINEERING
502 N KIRK RD.
ST. CHARLES, IL 60174

COVER SHEET

NO

DATE

REMARKS

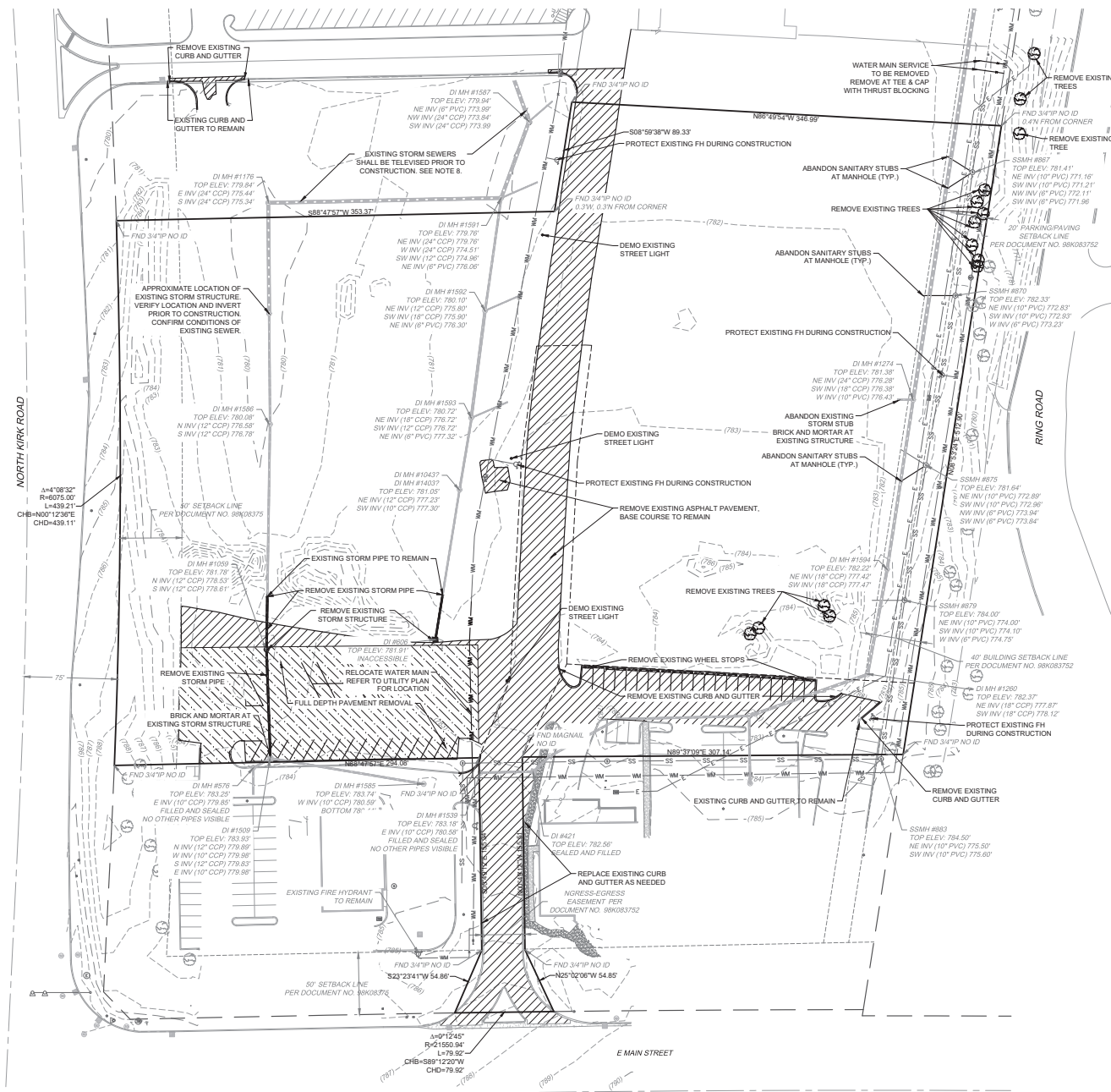
JOB NO.:	CH23-0124
PA / PM:	J. GRZYWA
DESIGNED:	T. SNOW
DATE:	1-19-24
PLOT DATE:	07/01/24

SHEET
C1.0
Sheet 1 of 10

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SHEET
C1.2
Sheet 3 of 10

NOT FOR CONSTRUCTION



EXISTING	BOUNDARY	REMOVE / DEMO
---	---	---
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---	---	---
---	---	---
---	---	---
---	---	---
---	---	---

HATCH LEGEND	REMOVE EXISTING ASPHALT, BASE COURSE TO REMAIN
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---	---
---	---
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---	---
---	---
---	---
---	---
---	---
---	---
---	---

DEMOLITION NOTES

- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. ENGINEER WILL NOT BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH CHANGES TO THE DESIGN WITHOUT PROPER NOTIFICATION.
- ALL EXCAVATION SPOILS, INCLUDING BUT NOT LIMITED TO CONCRETE AND PAVEMENT EXCAVATION, SHALL BE EXPORTED AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- EXISTING STRUCTURES, CONCRETE, PAVEMENT, FENCES, CURBS, UTILITY BOXES, LIGHTS, GATES, ETC. NOT CALLED OUT IN THE PLANS TO BE REMOVED OR REPLACED SHALL BE PROTECTED IN PLACE.
- CONTRACTOR TO PROVIDE TREE PROTECTION AS NECESSARY DURING CONSTRUCTION TO PRESERVE EXISTING TREES TO REMAIN. ANY TREES NOT IDENTIFIED TO BE REMOVED ARE ASSUMED TO REMAIN.
- ALL ABANDONED SEWERS / FORCE MAINS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUGS.
- ALL FOUNDATIONS BELOW GROUND AND AT GROUND UTILITIES AND APPURTENANCES TO BE REMOVED.
- ANY WATER OR SANITARY NOW SHOWN ON THESE PLANS TO BE ABANDONED/REMOVED AS NEEDED.
- CONTRACTOR TO TELETYPE EXISTING STORM SEWER FROM BEGINNING OF RUN TO EXISTING DETENTION BASIN OFF OF FOXFIELD DRIVE, NORTH OF JEWEL BUILDING. SEWERS SHALL BE CLEANED OF DEBRIS AND FUNCTIONING. NOTIFY OWNER AND ENGINEER OF ANY SEWERS IN DISREPAIR.

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FOR AND ON BEHALF
OF WARE MALCOMB

FOX HAVEN SQUARE
PRELIMINARY ENGINEERING
502 N KIRK RD.
ST. CHARLES, IL 60174

EXISTING CONDITIONS & DEMOLITION PLAN	REVISIONS
NO.	DATE

JOB NO.:	CH23-0124
PA / PM:	J. GRZYWA
DESIGNED:	T. SNOW
DATE:	1-19-24
PLOT DATE:	07/01/24

SHEET	C2.0
Sheet	4 of 10

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FOR AND ON BEHALF
OF WARE MALCOMB

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PRELIMINARY ENGINEERING
502 N KIRK RD.
ST. CHARLES, IL 60174

PRELIMINARY SITE PLAN

NO. DATE

JOB NO.: CH23-0124
PA / PM: J. GRZYWA
DESIGNED: T. SNOW
DATE: 1-19-24
PLOT DATE: 07/01/24

SHEET
C3.0
Sheet 5 of 10

LEGEND

EXISTING	PROPOSED
BOUNDARY	BOUNDARY
LOT LINE	LOT LINE
EASEMENT	EASEMENT
CENTERLINE	CENTERLINE
MAJOR CONTOUR	MAJOR CONTOUR
MINOR CONTOUR	MINOR CONTOUR
CURB / GUTTER	CURB / GUTTER
BUILDING	BUILDING
N/A	N/A
STORM DRAIN	STORM DRAIN
STORM CLEANOUT	STORM CLEANOUT
STORM INLET	STORM INLET
STORM MANHOLE	STORM MANHOLE
SANITARY	SANITARY
SANITARY CLEANOUT	SANITARY CLEANOUT
SANITARY MANHOLE	SANITARY MANHOLE
WATERLINE	WATERLINE
FIRE HYDRANT	FIRE HYDRANT
WATER VALVE	WATER VALVE
WATER MANHOLE	WATER MANHOLE
ELEC VAULT	ELEC VAULT
TRANSFORMER	TRANSFORMER
SIDEWALK RAMP	SIDEWALK RAMP

HATCH LEGEND

PROPOSED CONCRETE SIDEWALK
PROPOSED HEAVY DUTY ASPHALT PAVING
PROPOSED LIGHT DUTY ASPHALT PAVING
PROPOSED PLANTING AREA
PROPOSED BIORETENTION PLANTINGS
PROPOSED STAMPED CONCRETE

SITE NOTES

- CONTRACTOR TO FIELD-VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. ENGINEER WILL NOT BE LIABLE FOR ANY COSTS ASSOCIATED WITH CHANGES TO THE DESIGN WITHOUT PROPER NOTIFICATION.
- SEE COVER SHEET FOR BENCHMARK, BASIS OF BEARINGS, AND SURVEY INFORMATION.
- DIMENSIONS ARE TO BACK OF CURB AND BUILDING FACE UNLESS OTHERWISE NOTED.
- PAVEMENT THICKNESS AND DESIGN ARE PER THE GEOTECHNICAL REPORT.
- ACCESSIBLE CURB RAMP SHALL BE CONSTRUCTED WITH DETECTIBLE WARNING PADS IF REQUIRED BY LOCAL CRITERIA.
- CONTRACTOR SHALL REMOVE AND REPLACE CURB, GUTTER, PAVING, LANDSCAPE, AND ANY OTHER ITEMS DAMAGED DURING CONSTRUCTION.
- ALL PROPOSED STRIPING TO BE 4" WIDE PAINTED YELLOW STRIPE, UNLESS NOTED OTHERWISE.
- ALL PARKING SPACES ARE SHARED PARKING.

SITE DATA

PROPERTY AREA: ±328,432F (7.54 AC)
PROPOSED IMPERVIOUS: 6.00 AC
PROPOSED PERVIOUS: 1.54 AC

BUILDING AREA:

BUILDING 1: ±16,150 SF - (8,500 SF RESTAURANT, 9,650 SF RETAIL)
BUILDING 2: ±19,800 SF - (19,800 SF RESTAURANT)
BUILDING 3: ±14,250 SF - (4,000 SF RESTAURANT, 10,250 SF RETAIL)
BUILDING 4: ±40,000 SF - (6,422 SF RESTAURANT, 29,589 SF INDOOR RECREATION)
TOTAL BUILDING G.F.A.: 89,900 SF

REQUIRED PARKING PER CITY OF ST. CHARLES PUD STANDARD AT 4 SPACES PER 1,000 SF OF RESTAURANT SPACE AND 15 SPACES PER 1,000 SF OF RETAIL SPACE
REQUIRED PARKING PER CITY OF ST. CHARLES CITY CODE AT 4 SPACES PER 1,000 SF FOR INDOOR RECREATION

36,422 SF RESTAURANT SPACE, 19,900 SF RETAIL & OFFICE SPACE, & 29,589 SF INDOOR RECREATION.

RESTAURANT PARKING: 546 SPACES
RETAIL & OFFICE PARKING: 80 SPACES
INDOOR REC. PARKING: 118 SPACES
TOTAL REQUIRED PARKING: 744 SPACES

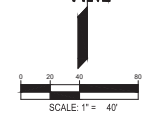
TOTAL PROVIDED PARKING

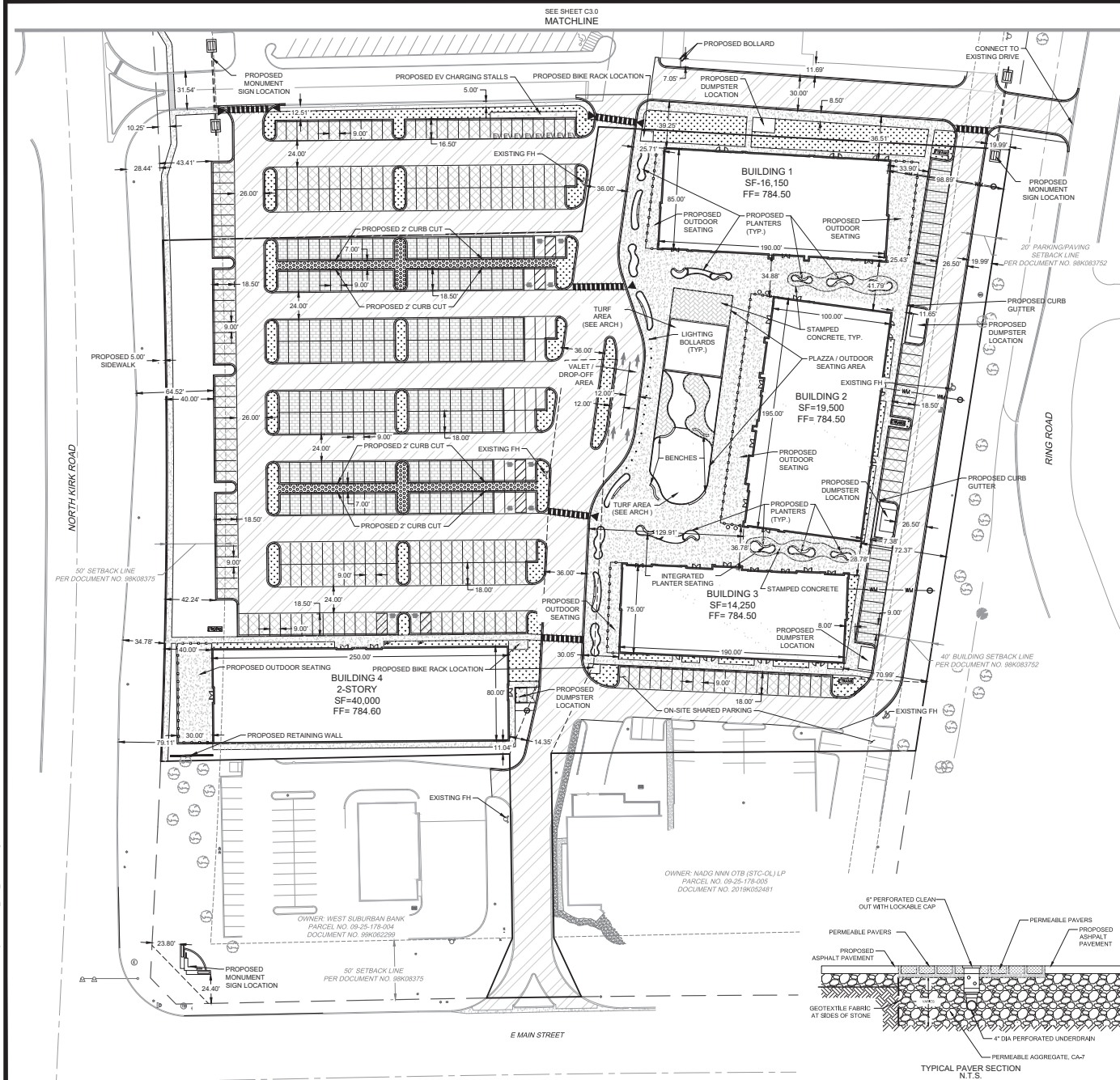
ON-SITE DEDICATED: 327 SPACES
ON-SITE SHARED(SOUTH): 34 SPACES (SHARED WITH ON THE BORDER)
OFF-SITE SHARED(NORTH): 87 SPACES
TOTAL PROVIDED SPACES: 448 SPACES*

REQUIRED ADA SPACES: 9 (FOR 401-500 SPACES)
TOTAL PROVIDED: 10 SPACES

*VARIANCE IS REQUIRED

WM

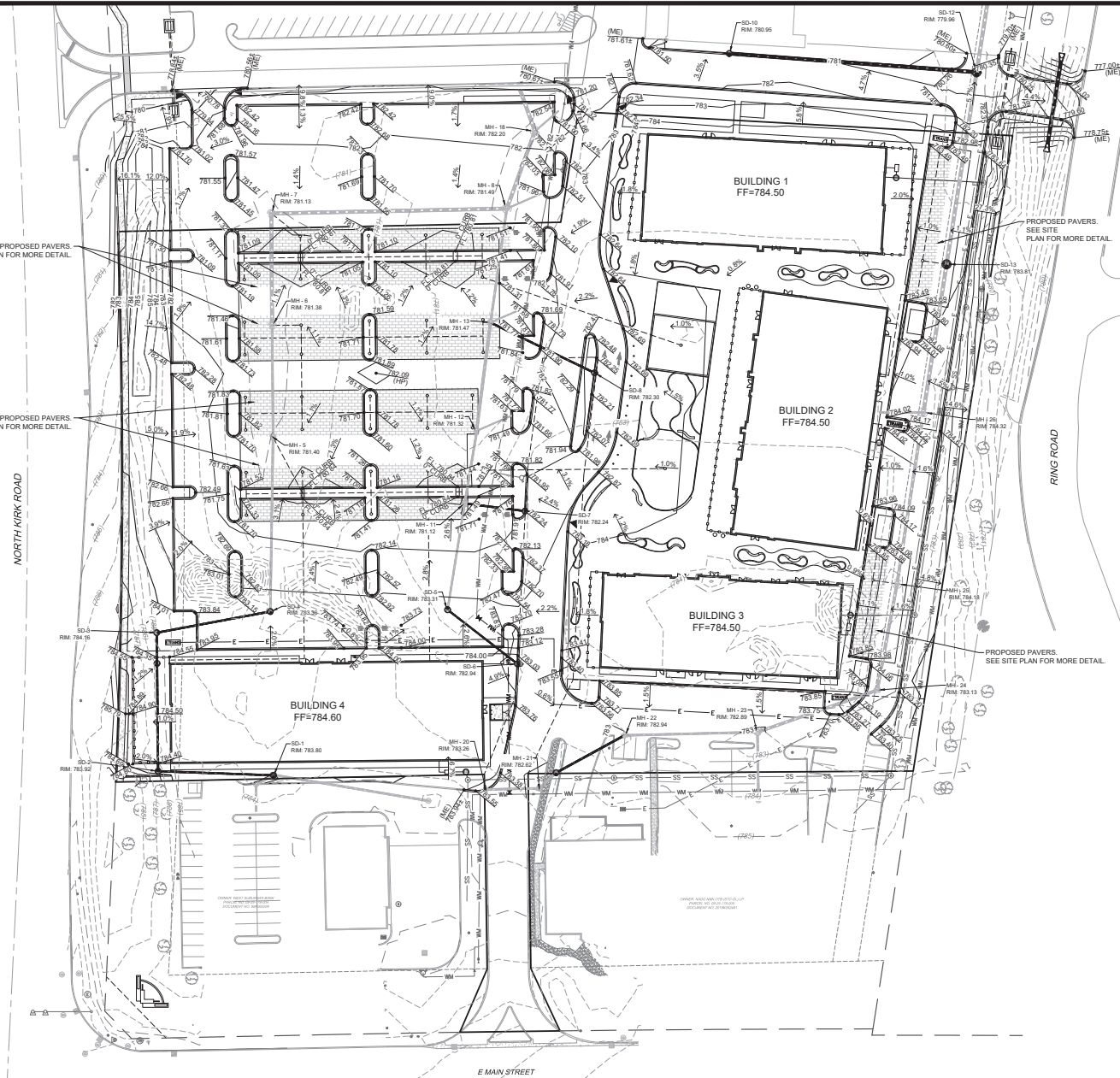




PRELIMINARY GRADING PLAN	
NO.	REMARKS

JOB NO.	CH23-0124
PA / PM:	J. GRZYWA
DESIGNED:	T. SNOW
DATE:	1-19-24
PLOT DATE:	07/01/24

SHEET	C4.0
Sheet	7 of 10

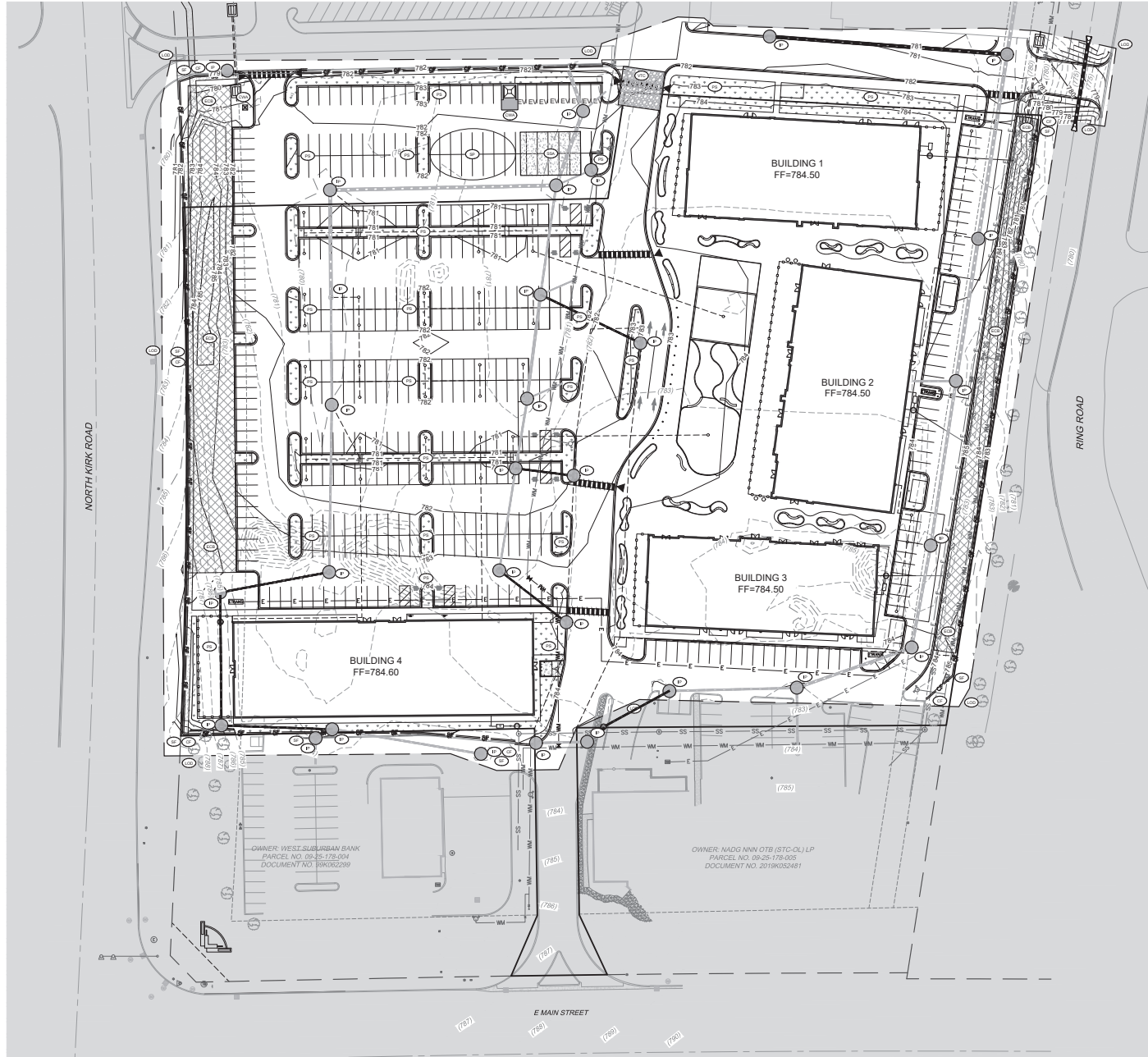


LEGEND	
EXISTING	PROPOSED
---	BOUNDARY
---	SECTION
---	1/4 SECTION
---	1/16 SECTION
---	LOT LINE
---	EASEMENT
---	CENTERLINE
---	MAJOR CONTOUR
---	MINOR CONTOUR
---	CURB / GUTTER
---	SIDEWALK
---	FENCE
---	ICCA117.1 ACCESSIBLE ROUTE
---	N/A
---	STORM DRAIN
---	SANITARY
---	IRRIGATION
---	OVERHEAD UTILITY
---	CABLE TV
---	BURIED ELECTRIC
---	FIBER OPTIC
---	NATURAL GAS
---	TELEPHONE
---	UNKNOWN UTILITY

- GRADING NOTES**
- CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ELEVATIONS SHOWN ON THE PLANS. ENGINEER WILL NOT BE LIABLE FOR ANY COSTS ASSOCIATED WITH CHANGES TO THE DESIGN WITHOUT PROPER NOTIFICATION.
 - SEE COVER SHEET FOR BENCHMARK, BASIS OF BEARINGS, AND SURVEY INFORMATION.
 - ELEVATIONS ARE PER THE SURVEY DATUM, NOT PER ARCHITECTURAL FLOOR ELEVATIONS.
 - ELEVATIONS ARE AT FINISHED SURFACE UNLESS OTHERWISE NOTED.
 - CURB ELEVATIONS ARE AT FLOWLINE/BOTTOM OF CURB UNLESS OTHERWISE NOTED.
 - EXISTING UTILITY STRUCTURES TO BE ADJUSTED AS NECESSARY FOR PROPOSED GRADING.
 - SIDEWALKS AND LANDINGS SHALL BE 2% MAX. CROSS-SLOPE TOWARD ROADS, DRIVE LANES, AND PARKING AREAS UNLESS OTHERWISE NOTED.
 - ACCESSIBLE PARKING STALLS AND LOADING AREAS TO BE 2% MAX. SLOPE IN ANY DIRECTION.
 - REFER TO THE GEOTECH REPORT FOR GROUNDWATER ELEVATIONS.
 - GRADING OF LANDSCAPED AREAS AROUND BUILDINGS TO COMPLY WITH GEOTECH. REPORT.
 - PEDESTRIAN GUARDRAILS TO BE INSTALLED WHERE REQUIRED BY LOCAL, STATE, OR FEDERAL REQUIREMENTS. RE. ARCHITECTURAL/LANDSCAPE PLANS.
 - ALL FLOW LINE ELEVATIONS ARE 0.50' LOWER THAN TOP OF CURB ELEVATIONS UNLESS NOTED OTHERWISE.

GRADING LEGEND	
---	PROPOSED SPOT ELEVATION
---	EXISTING SPOT ELEVATION
---	PROPOSED SLOPE / GRADE
---	EXISTING SLOPE / GRADE
---	OVERLAND OVERFLOW ROUTE
---	HIGH POINT
---	LOW POINT
---	GRADE BREAK
---	FINISHED FLOOR ELEVATION
---	TOP FACE OF INLET
---	TOP BACK OF CURB
---	MATCH EXISTING

W:\CH23\2024\00\00\CAD\Drawings\CH23-0124_C5.0_Erosion & Sediment Control Plan.dwg 07/01/2024 TSNOW 11



EROSION CONTROL BMP LEGEND

LOC	LIMITS OF CONSTRUCTION	
CF	CONSTRUCTION FENCE	CF
CWA	CONCRETE WASHOUT AREA	
ECB	EROSION CONTROL BLANKET	
IP	INLET PROTECTION	
MU	MULCHING & TEMPORARY SEEDING	
TS	PERMANENT SEEDING / LANDSCAPE (PER LANDSCAPE PLAN)	
PS	SILT FENCE	PS
SF	STOCKPILE MANAGEMENT	
SSA	STABILIZED STAGING AREA	
VTC	VEHICLE TRACKING CONTROL	

EROSION CONTROL NOTES

1. CONTRACTOR TO INSPECT AND MAINTAIN EROSION CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION, INCLUDING INSTALLING, REPAIRING, REPLACING, RELOCATING, AND MODIFYING AS NECESSARY FOR CONSTRUCTION AND TO ENSURE THE SITE IS IN COMPLIANCE WITH STATE AND LOCAL REQUIREMENTS.
2. ADDITIONAL EROSION CONTROL MEASURES NOT SHOWN ON THIS PLAN MAY BE NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
3. AREAS THAT ARE TO REMAIN IN A DISTURBED CONDITION FOR AN EXTENDED PERIOD SHALL BE TEMPORARILY SEEDED IN ACCORDANCE WITH STATE AND LOCAL CRITERIA.
4. REFER TO THE APPROVED LANDSCAPE PLAN FOR FINAL STABILIZATION INFORMATION. AREAS NOT STABILIZED BY PAVEMENT, BUILDING FOOTPRINT, PERMANENT LANDSCAPING, OR OTHER PERMANENT STABILIZATION SHALL BE PERMANENTLY SEEDED PER STATE AND LOCAL REQUIREMENTS.
5. CONTRACTOR TO KEEP PAVEMENT CLEAN OF MUD AND DEBRIS USING SWEEPING/SCRAPING EQUIPMENT TO BE STORED ON-SITE.
6. PROVIDE VEHICLE WASHOUT FOR VEHICLES ENTERING SITE LOCATED OUTSIDE OF DOT RIGHT OF WAY.



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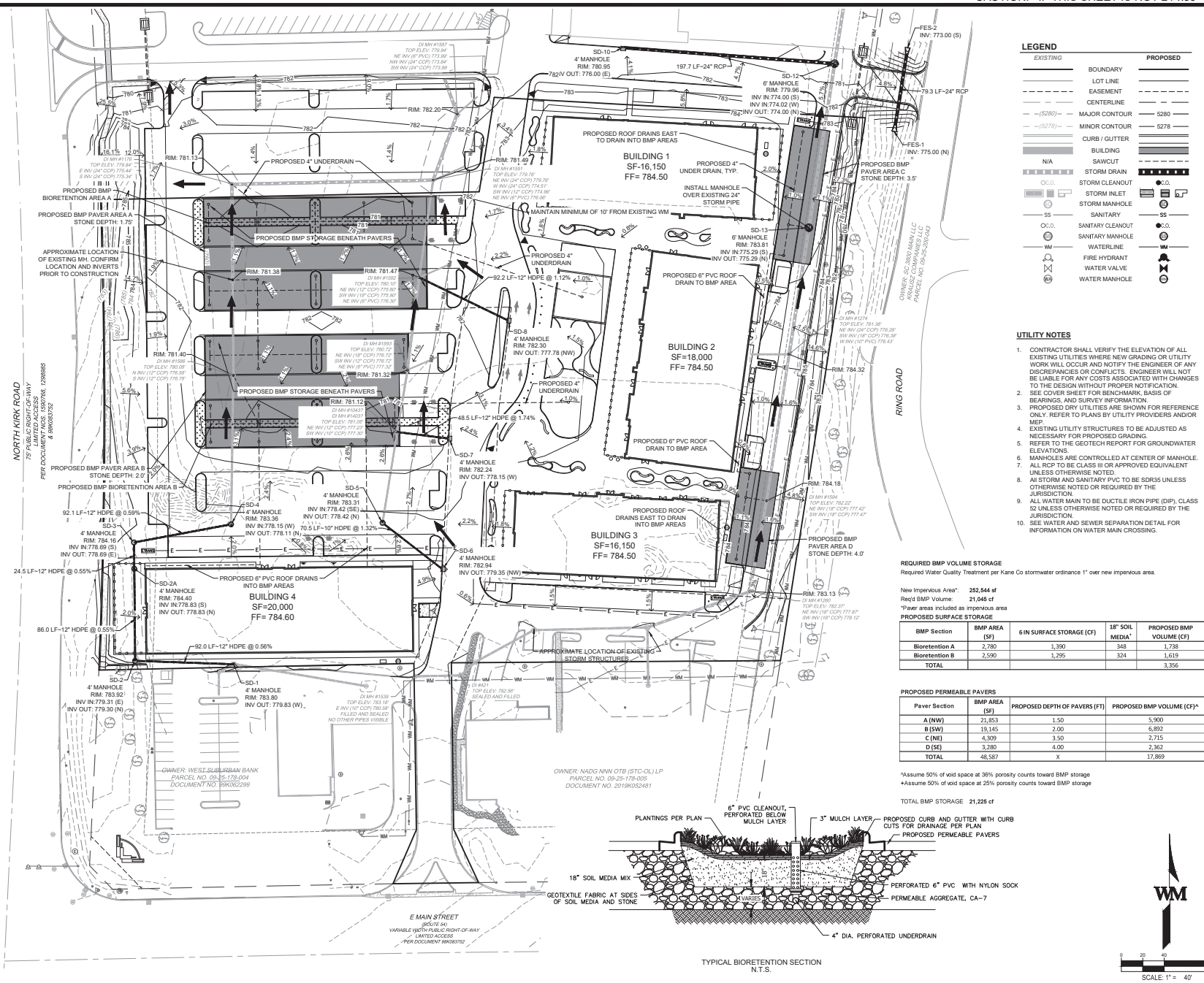
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ST. CHARLES, IL 60174

PRELIMINARY EROSION CONTROL & SEDIMENT CONTROL PLAN	
NO.	REMARKS

JOB NO.	CH23-0124
PA / PM	J. GRZYWA
DESIGNED	T. SNOW
DATE	1-19-24
PLOT DATE	07/01/24

SHEET	
C5.0	
Sheet	8 of 10

NOT FOR CONSTRUCTION



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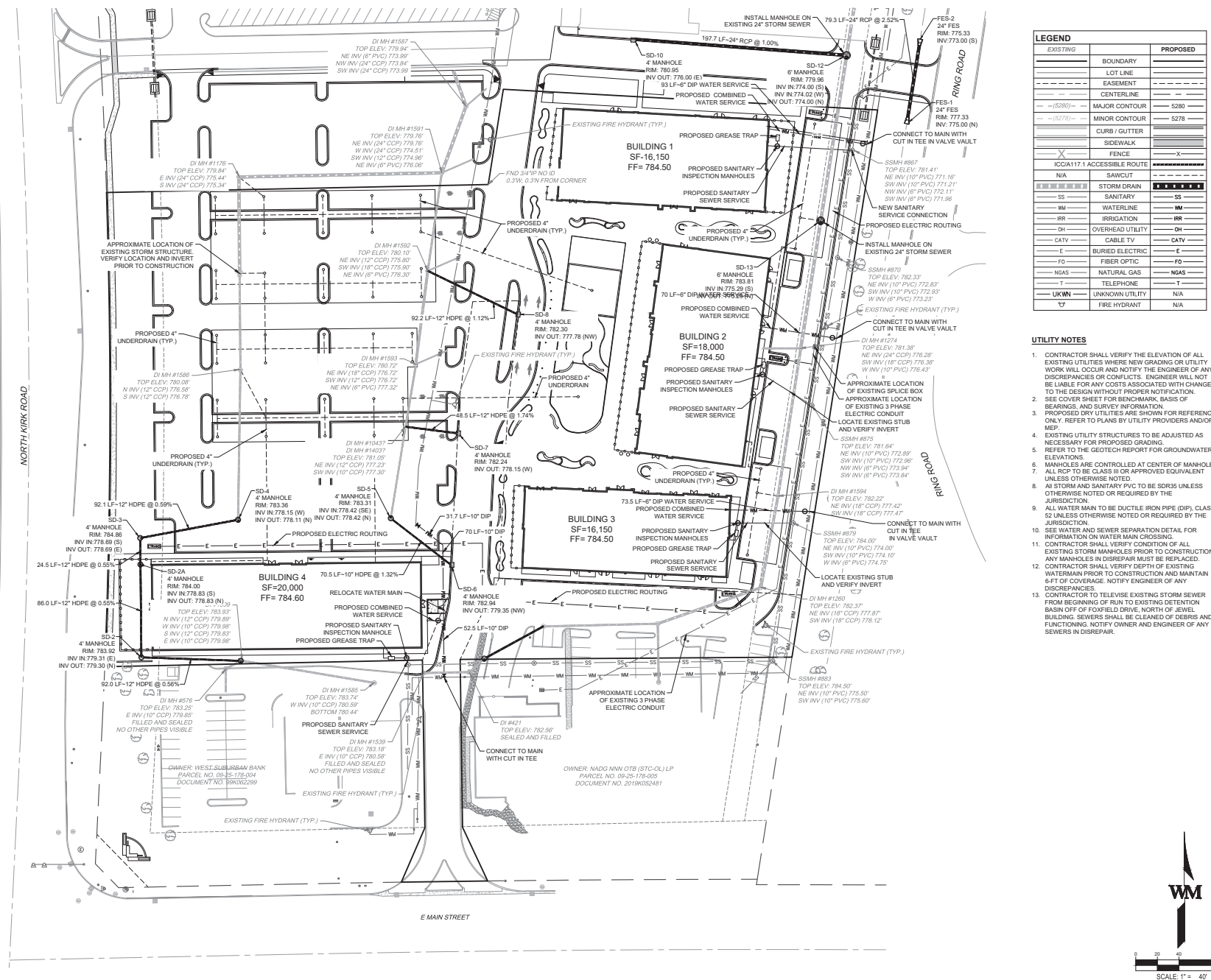
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502 N KIRK RD.
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PRELIMINARY UTILITY PLAN

JOB NO.: CH23-0124
PA / PM: J. GRZYWA
DESIGNED: T. SNOW
DATE: 1-19-24
PLOT DATE: 07/01/24

SHEET
C7.0
Sheet 10 of 10

NOT FOR CONSTRUCTION



LANDSCAPE PLAN FOR:

FOX HAVEN SQUARE

St Charles, IL

Site Location Map



SHEET INDEX

SHEET	DESCRIPTION
CS-1.0	COVER SHEET
L-1.0	LANDSCAPE PLAN
L-2.0	LANDSCAPE PLAN
L-3.0	LANDSCAPE PLAN
L-4.0	LANDSCAPE SPECIFICATIONS
L-5.0	BIO-SWALE SPECIFICATIONS

Landscape Architect:
Metz & Company
826 E. Maple Street
Lombard, IL 60148
630.561.3903

Architect/Engineer:
Ware Malcomb
1315 W 22nd Street, Suite 410
Oak Brook, IL 60523
630.218.0063



REVISIONS

1	Building #4 West Patio Added	7-1-24
2	St. Charles Review #1	8-24-24
3	St. Charles Review #2	8-18-24

FOX HAVEN SQUARE
502 N. Kirk Road
St Charles, Illinois

SEAL:

RANDY F. METZ
No. 187-00422
Professional Engineer
State of Illinois

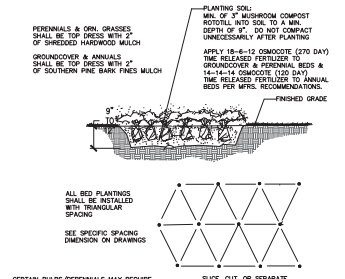
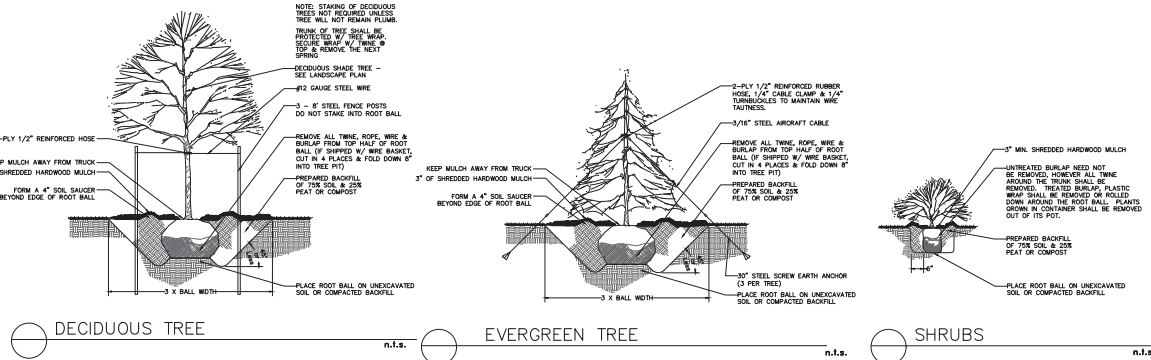
METZ & COMPANY
LANDSCAPE ARCHITECTURE/PLANNING
826 East Maple Street
Lombard, Illinois 60148
PH: 630.561.3903
www.metz-company.com

TITLE
LANDSCAPE PLAN

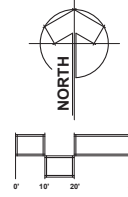
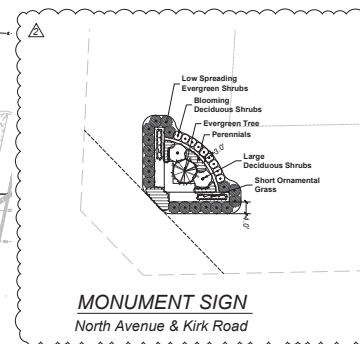
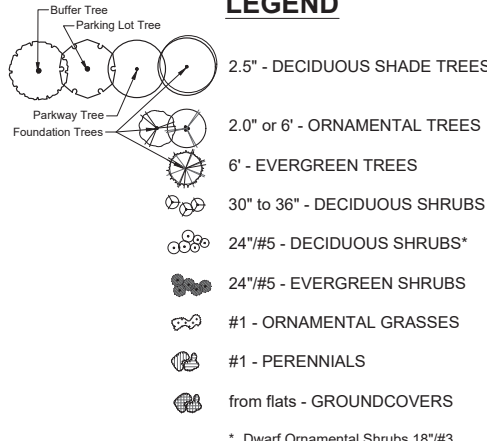
PROJECT NO.:
24-248

DATE: 1-19-2024
SCALE: 1"=20'

SHEET
CS-1.0



LEGEND



REVISIONS	
1	Building #4 West Patio Added 7-1-24
2	St. Charles Review #2 8-24-24
3	St. Charles Review #1 8-18-24

FOX HAVEN SQUARE

502 N. Kirk Road
St Charles, Illinois

SEAL:

METZ & COMPANY
LANDSCAPE ARCHITECTS/UTZ PLANNING

826 East Maple Street
Lombard, Illinois 60148
PH: 630.561.3903
www.metz-company.com

TITLE

PRELIMINARY LANDSCAPE PLAN

PROJECT NO.:

24-248

DATE: 1-19-2024

SCALE: 1"=20'

SHEET

L-2.0

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PLANT MATERIAL

PART 1 - GENERAL

1. SCOPE OF WORKING

The work includes furnishing of all materials, and the performance of all operation in connection with the design & execution, trees, deciduous & evergreen shrubs, annual roses, perennials, groundcover, grasses, groundcover, beds (if any) and annual flowers (if any) in strict accordance with the project specifications and applicable drawings which are subject to the terms and conditions of the Contract.

2. GENERAL REQUIREMENTS

All plant material must comply with the State of ILLINOIS and FEDERAL laws with respect to inspection for plant diseases and insect infestation. An inspection certificate required by any law to the effect that accompany each shipment. The Landscape Architect reserves the right to inspect the plant material at the place of growth but such inspection shall not preclude the right of shipment of the site.

3. APPLICABLE STANDARDS

- American National Standards for Tree Care Operations, ANSI Z39.1, American National Standards Institute, 11 West 43rd Street, New York, N.Y. 10036.
- American Standard for Nursery Stock, ANSI Z66.1, American Nursery & Landscape Association, 1000 Vermont Avenue, Suite 300, Washington, D.C. 20005.
- Manual Third, The Staff of the U.S. Botany Hortorium, 1976, Merril Publishing Co., New York.
- All standards shall include the latest amendments and amendments as of the date of advertisement for bids.

PART 2 - MATERIALS

1. GENERAL

The Landscape Architect reserves the right to tag or inspect plants at the nursery but such inspection shall not preclude the right of rejection at the site. Contractor shall furnish and install all plants as shown on the drawing and in the quantities as actually designated on the drawings. The quantities shown on the plan are not included for convenience purposes only.

2. IDENTIFICATION

The names of the plants indicated on the drawing conform generally with those accepted in the nursery trade.

3. QUALITY AND SIZE

Plants shall have a height of growth that is normal for the species and shall be sound, healthy, vigorous, and free from insect pests, their eggs or larvae, plant diseases, and injuries. All balled and burlapped plants shall be balled from the back, have their ball off the ground and heated in with mulch, and equal or exceed the measurements specified for the plant. They shall be measured before pruning with branches in formal position. All necessary pruning shall be performed only by hand. Plants shall not be accepted which have their leaders cut or which have their leaders damaged or not cutting in necessary. Plants grown in pots shall be measured with the use of the Landscape Architect but the use of larger plants will not be accepted in the plantings. Requirements for the measurement, including cutting, baling, and burlapping of plants in the plantings shall follow the Code of Standards (2001) most current edition by the AMERICAN NURSERY & LANDSCAPE ASSOCIATION, formerly known as the AMERICAN ASSOCIATION OF NURSERYMEN, INC. All plant material must be delivered to the site in accordance with the specifications with the exception that all shrubs and all at least some transplants and must have a fully developed fibrous root system typical of the related species. All shrubs must be healthy and immediately before shipping all are containerized. Pre-day, balled plants may be containerized only in special cases involving planting during the hot months between the spring and fall planting seasons. Use of such material will be determined only upon the approval of the Landscape Architect and is subject to his inspection prior to use.

4. DELIVERIES

Plants shall be delivered in accordance with all procedures that are allowed by good trade practice to insure arrival of the plant material at the stated delivery point in good condition and without injury of any nature. Plants shall be covered properly to prevent drying, frost damage, or injury.

5. TEMPORARY STORAGE

Insofar as it is possible, plant material shall be planted on the day of delivery. In the event this is not possible, the Contractor shall protect the unpacked stock from sun and drying winds at all times. All balled and burlapped plants shall be stored from the back, have their ball off the ground and heated in with mulch, and equal or exceed the measurements specified for the plant. Plants should not remain unpacked for longer than three (3) days if in heat or dry storage shall be only in a dry storage container.

6. SUBSTITUTIONS

Substitutions may be permitted only upon submission of written proof that the specified plant is not obtainable locally. Such substitution may be made only upon authorization by the Landscape Architect.

7. SELECTION

All plants shall be obtained from nurseries licensed by the State of Illinois and approved by the Landscape Architect. The Landscape Architect reserves the right to accompany the Contractor to the nurseries for the purpose of selecting (tagging) material. Plant sources located outside the State of Illinois must be approved by the Landscape Architect.

8. TOPSOIL

Topsoil if needed shall be imported. All imported topsoil, used for any portion of the work, shall be fertile, friable, stable, natural color containing a liberal amount of organic matter. It shall be relatively free from weeds, large roots, plants, sticks, stones larger than one (1) inch, weeds, debris or other extraneous matter. The installing Contractor shall be responsible for rock picking and/or debris removal as needed to meet this specification.

9. ORGANIC MATTER

The soil, to be acceptable topsoil, shall meet the following criteria:
A. ORGANIC MATTER: Not less than 1.5 percent nor more than 10.0 percent.
B. pH: No lower than 5.0 nor higher than 8.0.
C. TEXTURE: No more than 25 percent clay.
D. SOLUBLE SALT: No more than 1000 ppm.

10. CHEMICAL ACTIVITY

The Contractor shall provide a soil analysis report submitted containing test results and soil scientist recommendations based on a minimum of one (1) sample taken from each proposed imported topsoil site. The testing shall cover macro nutrients and pH, soluble salts, organic, countermechanical analysis and Bio assay.

11. MULCH

Mulch shall consist of the following:
A. MULCHROOM COMPOST: Mulchroom compost shall be composed of each certified bark or stable manure with an addition of 15-30% topsoil and shall have been used for the commercial growing of at least one (1) crop of mushrooms.
B. SHREDDED HARDWOOD BARK (general mulching): Shredded hardwood bark shall consist of freshly chipped hardwood bark, free of sticks and leaves.

12. FERTILIZER & NUTRIENTS

Fertilizer shall be commercial fertilizer which shall be a complete fertilizer with the following approximate analysis:
A. Nitrogen (14-3-3) slow-release bio-available or acceptable equivalent approved by Landscape Architect.
B. Phosphorus (16-16-16) slow-release bio-available or acceptable equivalent approved by Landscape Architect.
C. Potassium (16-16-16) slow-release bio-available or acceptable equivalent approved by Landscape Architect.
D. Sulfur (14-14-14) 3-4 month controlled release or acceptable equivalent approved by Landscape Architect.
E. Humic Bulk Bonizer (0-0-6) or acceptable equivalent approved by the Landscape Architect.
F. Condition & Evergreen Tonic: No fertilizer required.

13. TREE WRAPPING MATERIAL

A. Tree wrap shall be - Breathable synthetic fabric tree wrap. While in store: delivered in 75 mm (3 in.) wide rolls. Specifically manufactured for tree wrapping. Tree wrap shall be "Breathable Fabric Tree Wrap" as manufactured by the Dowell Company, Inc., Skeaton, MO, or approved equal. Substantial manufacturer literature for approval.
B. Tree wrap for securing the wrap shall be bio-degradable tape suitable for nursery use and which is expected to degrade in sunlight or less than two (2) years after installation.

14. WATER

Potable water shall be supplied by the Owner at no cost to the Contractor by way of an irrigation system, quick coupler system, hose bibs, hydrant meter or a designated in-situ source on site.

PART 3 - EXECUTION

Planting operations shall be conducted under favorable weather conditions during the season stated in the Contract. Before excavations are made the surrounding turf (if existing) shall be covered in a manner that will satisfactorily protect all turf areas that are to be broken or heated over and upon which soil is to be replaced. The Contractor shall be responsible for the substitution of all damaged existing turf. All installation shall be installed.

1. TIME SCHEDULE OF PLANTING OPERATION

Landscape planting shall be performed during the season or seasons which are normal for such as determined by weather conditions and by accepted practice. Planting may be performed under unreasonable conditions without additional compensation, but such work must be the prior approval of the Landscape Architect and/or Owner in writing in the form of a written order. Approval in writing is not required for operations. Approval in writing is not required for operations. The Contractor must be responsible for the substitution of all damaged existing turf. All installation shall be installed.

2. PLANTING SEQUENCE

Planting sequence shall be as follows:
1. SPRING: From time it is workable to June 15 with the following exception:
a. Bare root material (if any) shall cease on May 31.
2. FALL: a. Sept. 1 to Nov. 15 with following exceptions:
b. Evergreen Shrub planting to cease Oct. 31.
c. Evergreen Tree planting to cease Oct. 15.
d. Perennial & Ornamental Grass planting to cease Oct. 15.

3.2. WATERING

All plants shall receive a thorough watering immediately after installation. During times of extreme heat, all overgrown and deciduous trees shall receive a minimum of 15 gallons of water per tree per watering up to two (2) additional waterings shall be performed as needed. The use of drip irrigation tree bags are encouraged (if applicable). All additional waterings will be performed by the Owner or in accordance with a Change Order per the Supplemental Bid prices for additional watering.

3.3. MAINTENANCE

3.3.1. MAINTENANCE shall be performed by the Contractor as follows:
A. TEMPORARY MAINTENANCE: The Contractor shall be responsible for the total maintenance of all plant material until such a date as landscape operations have resumed. Preliminary Acceptance. Temporary maintenance shall begin immediately after each plant is installed and shall include up to three (3) waterings, and all necessary cultivation, weeding, pruning, disease and insect pest control, protective spraying, weeding of proper grades or canopy removal, removal of unwanted plant material, and any other operations consistent with good horticultural practices with regard to trees, shrubs, vines, and healthy growth of all work areas and the Contractor. Upon the Preliminary Acceptance of all plant areas, the responsibility for plant material ends with the Owner, with the following exceptions:
1. All plant material shall be in a healthy condition, as defined under the guarantee requirements stated below in Section 3.14.
2. All plant material shall be in a healthy condition, as defined under the guarantee requirements stated below in Section 3.14.

3.4. CONTINGENT MAINTENANCE

For the duration of the guarantee period the Contractor shall be responsible for the weeding of weeded plants, the straightening of plants which are not planted and the lighting of tree tops (if added). All other maintenance is the responsibility of the Owner. However, if the Contractor's responsibility is to occasionally inspect the quality of the Owner's maintenance.

3.5. ACCEPTANCE

3.5.1. PRELIMINARY PLANTING ACCEPTANCE: Preliminary planting acceptance shall be given for completed planting operations for the purpose of the Contractor becoming eligible for payment for this portion of the Contract work. In order to obtain Preliminary Acceptance, the Contractor shall notify the Owner and/or Owner's Representative in person or in writing at the conclusion of all planting operations so that preliminary acceptance may be given by a field inspection can be performed. In order for an area to be accepted as preliminary work, it shall conform to the following:
1. All plant material shall be in a healthy condition with the following exceptions:
a. All plant material shall be in a healthy condition, as defined under the guarantee requirements stated below in Section 3.14.
b. All plant material shall be in a healthy condition, as defined under the guarantee requirements stated below in Section 3.14.

3.6. FINAL PLANTING ACCEPTANCE

Final planting acceptance shall be granted after the completion of all replacement operations following fulling the guarantee stated below. On or about the expiration of the guarantee period, the Contractor shall be notified by the Owner and/or Owner's Representative to determine preliminary acceptance to be made by the Contractor in accordance with the provisions of these specifications. The inspector will document failure of the Contractor's work. Upon completion of the inspection, the Contractor shall be notified by the Owner and/or Owner's Representative to determine the acceptability of the required replacement. If it is found to be acceptable as defined by item A above, the Contractor and the General Contractor shall be notified of the final acceptance of work.

3.7. GUARANTEE

The Contractor shall guarantee for a period of one (1) year after the replacement of any permanent plant which has died or is in a dying condition, or which has failed to flourish in such a manner that the usefulness or appearance has been impaired. Any new shrub with a dead main leader with a crown which has been the present (25%) or more dead shall be replaced. These guarantees shall be in accordance with the following:
A. ONE YEAR PERIOD: The Contractor shall be liable on the date of Preliminary Acceptance of all plant material.
B. REPLACEMENTS & DAMAGES: The Contractor shall be liable for replacement of any permanent plant which has died or is in a dying condition, or which has failed to flourish in such a manner that the usefulness or appearance has been impaired. Any new shrub with a dead main leader with a crown which has been the present (25%) or more dead shall be replaced. These guarantees shall be in accordance with the following:
C. EXCLUSIONS: The Contractor shall not be liable for the replacement of plants which were damaged by animals, by decaying components, herbicides, pesticides or other materials not specified by the Contractor documents or not applied by him under his supervision, by destruction or removal by others, by Acts of God, by substitution of the Contractor's work, or by any other cause beyond the Contractor's control.

3.8. GUARANTEE PERIOD INSPECTION

During the guarantee period the Contractor shall, from time to time, inspect the weeding, watering, and other maintenance operations carried on by the Owner with respect to such work, and promptly report to the Owner any methods, practices or operations which he considers unsatisfactory, and not in accord with the best horticultural practices. The failure of the Contractor to so inspect or report shall be construed as an acceptance by the Owner of the Contractor's maintenance operations, and shall not thereafter claim or assert that any defects which may later develop are the result of such methods or practices or operations.

3.9. TURF GRASS

PART 1 - GENERAL

1. SCOPE OF WORK

The work includes final grading, furnishing fertilizer, seed and/or soil as specified and performance of all operations in connection with seeding and/or sodding in strict accordance with the applicable Drawings and subject to the terms and conditions of the Contract.

2. EQUIPMENT

The Contractor shall provide and maintain equipment suitable for the execution and completion of the work specified in accordance with (DOT) Standard Specifications. All equipment shall be operated by personnel trained in the operation of such equipment.

PART 2 - PRODUCTS

1. TOPSOIL

Topsoil for planting operations shall be obtained from an on-site available generated from soil stripping. In the event that none is available, reworked topsoil shall be imported from an off-site source. All imported topsoil, used for any portion of the work, shall be fertile, friable, stable, natural color containing a liberal amount of organic matter. It shall be relatively free from weeds, large roots, plants, sticks, stones larger than one (1) inch, weeds, debris or other extraneous matter. The installing Contractor shall be responsible for rock picking and/or debris removal as needed to meet the specifications.

2. ORGANIC MATTER

The soil, to be acceptable topsoil, shall meet the following criteria:
A. ORGANIC MATTER: Not less than 1.5 percent nor more than 10.0 percent.
B. pH: No lower than 5.0 nor higher than 8.0.
C. TEXTURE: No more than 25 percent clay.
D. SOLUBLE SALT: No more than 1000 ppm.

3. CHEMICAL ACTIVITY

The Contractor shall provide a soil analysis report submitted containing test results and soil scientist recommendations based on a minimum of one (1) sample taken from each proposed imported topsoil site. The testing shall cover macro nutrients and pH, soluble salts, organic, countermechanical analysis and Bio assay.

4. COMMERICAL FERTILIZER AND DELIVERY

Fertilizer shall be delivered to the site in its original, original containers, each bearing name and address of the manufacturer, name brand, or trademark, and manufacturer's guaranteed analysis. Any fertilizer which becomes caked or otherwise damaged, making it unusable to use, will not be accepted. Fertilizer shall not have been exposed to weather prior to delivery on the site and after delivery and use. It shall be completely protected at all times and shall not be stored in direct contact with the ground.

5. FERTILIZER STRENGTH

The fertilizer shall be a complete fertilizer containing a minimum basis percentage by weight of the following:
A. PRIOR TO SEEDING AND/OR SODDING 8-24-24
1. Nitrogen..... 8%
2. Phosphorus..... 24%
3. Potash..... 24%
B. AFTER SEEDING AND/OR SODDING 16-5-5
1. Nitrogen..... 16%
2. Phosphorus..... 5%
3. Potash..... 5%

6. OTHER QUALITY OF THE NITROGEN

All/one-quarter of the nitrogen shall be in the form of nitrate, one-quarter in the form of ammoniacal salts, and one-half in the form of organic nitrogen. All available phosphorus shall be derived from super-phosphate having a minimum guaranteed analysis of 20% of available phosphorus.
C. The product shall be in the form of a granulate of pellets.
D. The balance of the fertilizer shall be made up of materials usually present in such a product. It shall be free from dirt, sticks, sand, stone, or other debris.

7. GRASS SEED (if specified)

Grass seed shall be certified seed of the previous season's seed crop. All seed shall meet requirements established by the State and Federal Seed and Weeds Control Laws. The grass seed mixture shall be composed of the following grass seeds mixed in proportions by weight and shall not exceed the minimum percentages of purity and germination as indicated:
PROPORTION BY WEIGHT TYPE OF GRASS
1. CENTONIAL TURF GRASS MIX (if specified)
a. 30%..... KENTUCKY BLUEGRASS (blend of 3 cultivars)
b. 30%..... PERENNIAL RYEGRASS (blend of 2 cultivars)
c. 10%..... CREEPING RED FESCUE
d. 10%..... PERENNIAL RYEGRASS
e. 10%..... KENTUCKY BLUEGRASS
f. 10%..... PERENNIAL RYEGRASS
g. 10%..... CREEPING RED FESCUE
h. 10%..... PERENNIAL RYEGRASS
i. 10%..... KENTUCKY BLUEGRASS
j. 10%..... PERENNIAL RYEGRASS
k. 10%..... CREEPING RED FESCUE
l. 10%..... PERENNIAL RYEGRASS
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jr. 10%..... PERENNIAL RYEGRASS
js. 10%..... CREEPING RED FESCUE
jt. 10%..... PERENNIAL RYEGRASS
ju. 10%..... KENTUCKY BLUEGRASS
jv. 10%..... PERENNIAL RYEGRASS
jw. 10%..... CREEPING RED FESCUE
jx. 10%..... PERENNIAL RYEGRASS
jy. 10%..... KENTUCKY BLUEGRASS
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ka. 10%..... CREEPING RED FESCUE
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ln. 10%..... PERENNIAL RYEGRASS
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lp. 10%..... PERENNIAL RYEGRASS
lq. 10%..... KENTUCKY BLUEGRASS
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mi. 10%..... CREEPING RED FESCUE
mj. 10%..... PERENNIAL RYEGRASS
mk. 10%..... KENTUCKY BLUEGRASS
ml. 10%..... PERENNIAL RYEGRASS

Site Preparation

Site Preparation

Site Preparation

1. The bottom of the stormwater facility(s) shall be free of any actively growing problematic species prior to plant installation. These problematic species include, but are not limited to: cattails (*Typha* spp.), common reed (*Phragmites australis*), purple loosestrife (*Lythrum salicaria*), and reed canary grass (*Phalaris arundinacea*). Contractor shall conduct the necessary pre-planting weed control to ensure that the planting zone is free of these species. Planting shall not be authorized if any of the species are actively growing in the basin

Planting Specifications

1. The Contractor shall furnish, transport, and install all plugs in the areas specified on the Landscape Plan
2. Planting activities shall be performed between May 1 and June 15, and after satisfactory site preparation has been completed.
3. The Contractor shall notify the Owner and/or the Owner's Agent 24 hours prior to planting.
4. All plant plugs shall be container grown in open bottom pots and have a minimum shoot heights of 12 inches at the time of planting. Pot dimensions shall be a minimum of 3 inches wide and 3 inches deep for each plug. Smaller pots are not acceptable. Soil saturation shall be maintained for all potted plants until installation. Plants material shall not be provided as dormant root or bare material (i.e., tubers, rhizomes) or bare root material, except for lilies (if specified).
5. All container plant material shall be inoculated with mycorrhizal fungi.
6. Container plants shall exhibit root growth sufficient to hold all soil intact with removed from container.
7. The container plants shall be protected from depredation by a 2-foot tall chicken wire fence. Wooden 2"x2" stakes shall be placed along each pod at 6-foot intervals along all sides of the wire and sunk into the soil about one foot if each enclosure is to create a web so that larger birds (i.e., geese and ducks) cannot enter the enclosure from above. The Contractor shall replace any plant killed from depredation at no charge.
8. The Contractor shall provide off-site disposal of all planting enclosures during the second growing season.
9. The Contractor shall water all plugs throughout the first growing season as necessary to achieve the performance criteria specified below.
10. The Owner and/or the Owner's Agent shall approve all species substitutions to the designated plug list at least one week prior to planting. Unapproved species delivered to the site shall not be accepted.
11. All plant materials shall be subject to inspection by the Owner and/or Owner's Agent prior to installation. Any plant not in compliance with these specifications or unapproved species substitutions shall not be accepted. The Contractor shall be required to replace unacceptable species within 72 hours from initial inspection. Thus, meeting the plant specifications is mandatory and no exceptions will be allowed.
12. The Contractor shall provide the Owner and/or the Owner's Agent copies of all the plants confirmation forms from the nurseries that provided material.
13. All specially wetland and/or emergent aquatic plugs shall be installed 2 to 3 foot on centers in variously shaped pods scattered throughout their respective areas as illustrated on the Landscape Plan.

PRAIRIE SEEDING

Seed Bed Preparation

1. The Contractor shall remove stones, roots and sticks prior to seedbed preparation activities and kill any existing vegetation. All debris shall be disposed of off-site.
2. The Contractor shall prepare the seedbed with a unique rack or harrow to create a smooth level seedbed. The seedbed preparation activities shall reduce clod size to a minimum diameter of 2-inches and eliminate rivulets, gullies, crusting and caking. Working wet soils shall not be conducted. Following these seedbed preparation activities, the ground surface shall have minimum compaction, be smooth and level, and be free of debris to promote good seed to soil contact.

Seeding Specifications

- The Contractor shall furnish, transport, and install all seed mixes in the areas specified on the Landscape Plan
2. Prairie seeding activities shall be performed after the seedbed has been properly prepared. Spring seeding shall occur between April 15 and June 15. Fall dormant seeding shall be conducted no earlier than November 1 and after the first frost and until the depth exceeds 1 inch.
3. The Contractor shall notify the Owner and/or the Owner's Agent 24 hours prior to planting, installation of specified seed mixtures shall be performed using a native seed drill and tillage mounted broadcast spreader. The Contractor shall be conducted in the following manner with the drill installation conducted before the broadcast installation:
- a. All of the seed(s) by weight, seventy-five percent (75%) by weight of the native grasses and twenty-five (25%) by weight of the forbes shall be installed with a native seed drill. This seed shall be buried to a 1/8-inch depth.
 - b. Following drill seeding the remaining twenty-five percent (25%) and seventy-five percent (75%) of the forbes all shall be sown with a tractor mounted broadcast spreader. Additional seeds can be added during the broadcast seeding if needed to improve metering of the seed mix.
4. All seed sources shall be within a 200-mile east-west radius and a 100-mile north-south radius of the site. Seeds shall be true to name and variety and have proper stratification and/or scarification to break dormancy for the appropriate planting seasons. Proof of origin shall be supplied to the Owner and/or the Owner's Agent at the site prior to any seedling application. Seed mixes shall be supplied in pounds of Pure Live Seed (PLS). Purity and germination tests no later than twelve (12) months must be submitted for all seed supplied to verify quantities of bulk seed required to achieve the pounds of PLS specified. All species (grasses, sedges and forbes) will be supplied at 100% PLS. Seed not compliant with PLS requirements will be augmented with additional quantities in order to compensate for lack of viability and achieve specified amounts of PLS.
5. Installation of Wetland Seed Mix, Emergent Wetland Seed Mix and/or Stormwater Seed Mix (if specified) shall be performed with a tractor-mounted or ATV mounted broadcast spreader to ensure seed is placed on top of the ground surface (i.e. surface seeding). If the seeding area is too small or wet for a tractor (ATV), seed installation shall be hand-seeded or hydro-seeded using a backpack sprayer. The hydro-seeding shall be performed by a qualified Hydroseed company. Hydroseed shall not be mixed with the seed during the seed installation. APPROVAL from the Owner and/or the Owner's Agent is required prior to any hydrologic seeding.
6. The Contractor shall furnish seeds of specified local origin, hardy under the climate conditions at the project site, free of insects and diseases, and having the appearance of health, and be suitable for normal forage use. Seed shall comply with applicable state and federal laws regarding inspections. All regulations applicable to the seed mix and landscape materials shall be followed.
7. The Contractor shall examine the grade, verify the elevations and water levels, observe the conditions under which work is to be performed, and notify the Owner and/or the Owner's Agent of unsatisfactory conditions. Proceeding with the work constitutes acceptance of existing conditions, including current water levels and soil conditions.
8. Seed shall not be sown during high winds or when the seedbed is not in the proper condition for seeding. The Contractor shall start seeding immediately after the weather improves and stop seed at the end of each seed run. Operate equipment to ensure complete coverage of the entire area to be seeded.
9. Prior to installation, the Owner and/or the Owner's Agent shall review any species substitutions and reserves the authority to deny use of any species if deemed inappropriate for the site.
10. All seed material shall be subject to inspection by the Owner and/or the Owner's Agent prior to installation.
11. Contractor shall provide the Owner and/or the Owner's Agent copies of all seed labels.
12. Seeding shall only occur on areas that will received the specified erosion control measures within 30 days of seeding and before the seedling is dormant. If rain is imminent, erosion control measures shall occur on the same day as seeding.

Erosion Control

1. Following seeding erosion control measures shall be completed within all newly seeded areas as shown on the Landscape Plan. If blankets are specified they shall be installed with staples following the manufacturer's specifications.

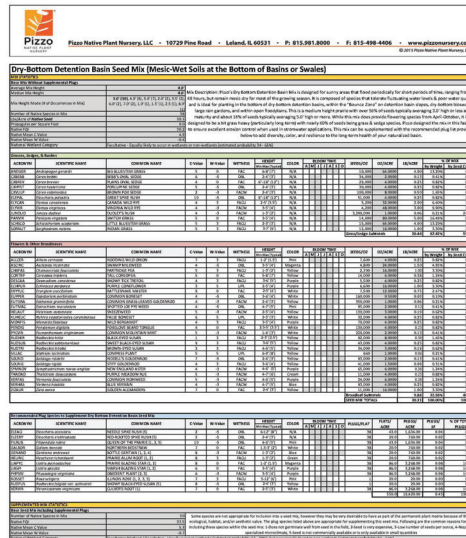
THREE-YEAR MANAGEMENT PERIOD ACTIVITIES

- The work consists of the Contractor conducting routine ecological management activities during the three-year management and monitoring period in the naturalized planting areas as shown on the landscape plan to assist the Contractor in meeting required performance standards.
- During the first two (2) growing seasons of the three-year period the Contractor shall high-mow the vegetation in the Prairie and/or Wet/Mesic Prairie areas several times during the growing season to ensure the vegetation does not exceed eighteen inches (18") in height. A rotary or flail type mower shall be used. During high-mowing, the vegetation shall be cut to no taller than 9 inches as the native seedlings are harmed. Selective weed whipping can be used if conditions are unfit (i.e., too wet) for a tractor, or if only small isolated areas of vegetation require cutting. In addition, cutting the inflorescence prior to seed set of many biennial species including teasel and sweet clover is an effective control method that can be utilized.
- The Contractor shall conduct chemical and/or mechanical weed control activities in all of the naturalized seedling areas for a three-year period following planting and/or seeding. The Contractor shall conduct four annual weed control application periods (total of twelve (12) for the three-year period). The Contractor is responsible to achieve a 95% kill of green crabgrass, purple loosestrife, thistle and common reed and 80% kill of other problematic, nuisance species to successfully complete each of the application periods specified below.
- a. Application Period One (early spring):** problematic species such as, but not limited to, reed canary grass, red/white cover, cattails.
 - b. Application Period Two (late spring to mid-summer):** problematic species such as, but not limited to, reed canary grass, white/yellow sweet cover, cattails, wild carrot, purple loosestrife and common reed.
 - c. Application Period Three (mid to late summer):** problematic species such as, but not limited to, reed canary grass, ragweed, cattails, purple loosestrife and common reed.
 - d. Application Period Four (late summer to early fall):** problematic species such as, but not limited to, reed canary grass, red/white cover, common reed.
4. Natural regeneration of cattails in the stormwater management facilities will likely occur following construction. As required by planting specifications pre-planting weed control will be conducted if any problematic species are present. As required, cattail handling cattails can be conducted when the cattails are small enough to ensure that they will not be a problem for disposal of plants. As required, larger cattails will require herbicide applications. Aggressive cattail control will be required after planting throughout the three-year management period to ensure plant establishment. After planting the hand-year application method to control cattails shall be required.
- a. If permitted, the Contractor shall conduct a prescribed burn in the prairie areas during the third growing season. The Contractor shall obtain all the required burn permits from the Illinois Environmental Protection Agency, City or Village, and local fire protect district and prepare all necessary documentation required for the permit including a Burn Plan.**
 - b. The Contractor shall irrigate all plant plugs as needed to achieve the survivorship requirements.**
 - c. The Contractor shall remove and dispose of all planting endemics during the second year of the management period.**

PERFORMANCE CRITERIA

1. Within three (3) months of seed installation, at least 90% of the seeded area, as measured by aerial coverage, shall be vegetated. A minimum 90% vegetative coverage shall be maintained throughout and at the end of the three-year maintenance period for these areas. This includes the areas of the three-year areas (if planted).
 2. At the end of the second growing season, a minimum of 75% vegetative coverage in the wetland plant area(s) shall be achieved and maintained throughout the end of the three-year maintenance period (if planted).
 3. The stormwater management facilities shall not contain any rills greater than four inches (4") deep throughout and at the end of the three-year maintenance period.
 4. At the end of the second and third growing seasons, no area greater than 1.0 square meters on slope areas shall be devoid of vegetation.
 5. At the end of the second growing season, 30% seed success for the prairie seed mix areas shall be achieved. At the end of the third growing season 50% seed mix presence for the prairie seed mixes shall be achieved.
 6. At the end of the third growing season, the top three dominant species based on aerial coverage shall NOT be non-native species, cattail or reed grass.
 7. Relative coverage (determined by ocular estimation) of cattail shall be less than 10% throughout, and at the end of the three-year maintenance period.
 8. Relative coverage (determined by ocular estimation) of common reed, reed canary grass, and loosestrife in aggregate shall be less than 5% throughout, and at the end of the three-year maintenance period.
 9. Relative coverage (determined by ocular estimation) of thistle and teasel shall be less than 5% throughout, and at the end of the three-year maintenance period.
 10. Plugs (if planted) must achieve 90% survivorship one (1) year from plant installation.
- The Contractor shall water plugs (if planted) as needed in order to meet the performance criteria. The cost to irrigate is incidental to the contract and shall be included in the Contractor's bid price. The Contractor shall also perform vegetative management for the area following the completion of the section "Three-year Monitoring and Reporting Activities" to assist with meeting the Contractor Performance Criteria. If performance criteria are not achieved, Contractor is responsible to conduct additional activities, which may include supplemental seeding, supplemental planting and additional years of vegetation management to rectify areas at no additional cost to the Owner to achieve the performance criteria.

BIO-SWALE NATIVE PLANT MIX (or equivalent)



	REVISIONS	
3	<u>Building #4 West Patio Added</u>	7-18-
2	<u>St. Charles Review #2</u>	6-24-
1	<u>St. Charles Review #1</u>	4-18-


This plan is not 24" x 36" in size.

FOX HAVEN SQUARE
502 N. Kirk Road
St Charles, Illinois

SEAL:

RANDY F. METZ
P.E.
157-390423

Randy F. Metz

 **METZ & COMPANY**
LANDSCAPE ARCHITECTURE • SITE PLANNING

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Lombard, Illinois 60148
PH: 630.561.3903
www.metz-company.com

TITLE
BIO-SWALE
SPECIFICATIONS

PROJECT NO.: **24-248**

DATE: **1-19-2024**

SCALE: **N.T.S.**

L-5.0

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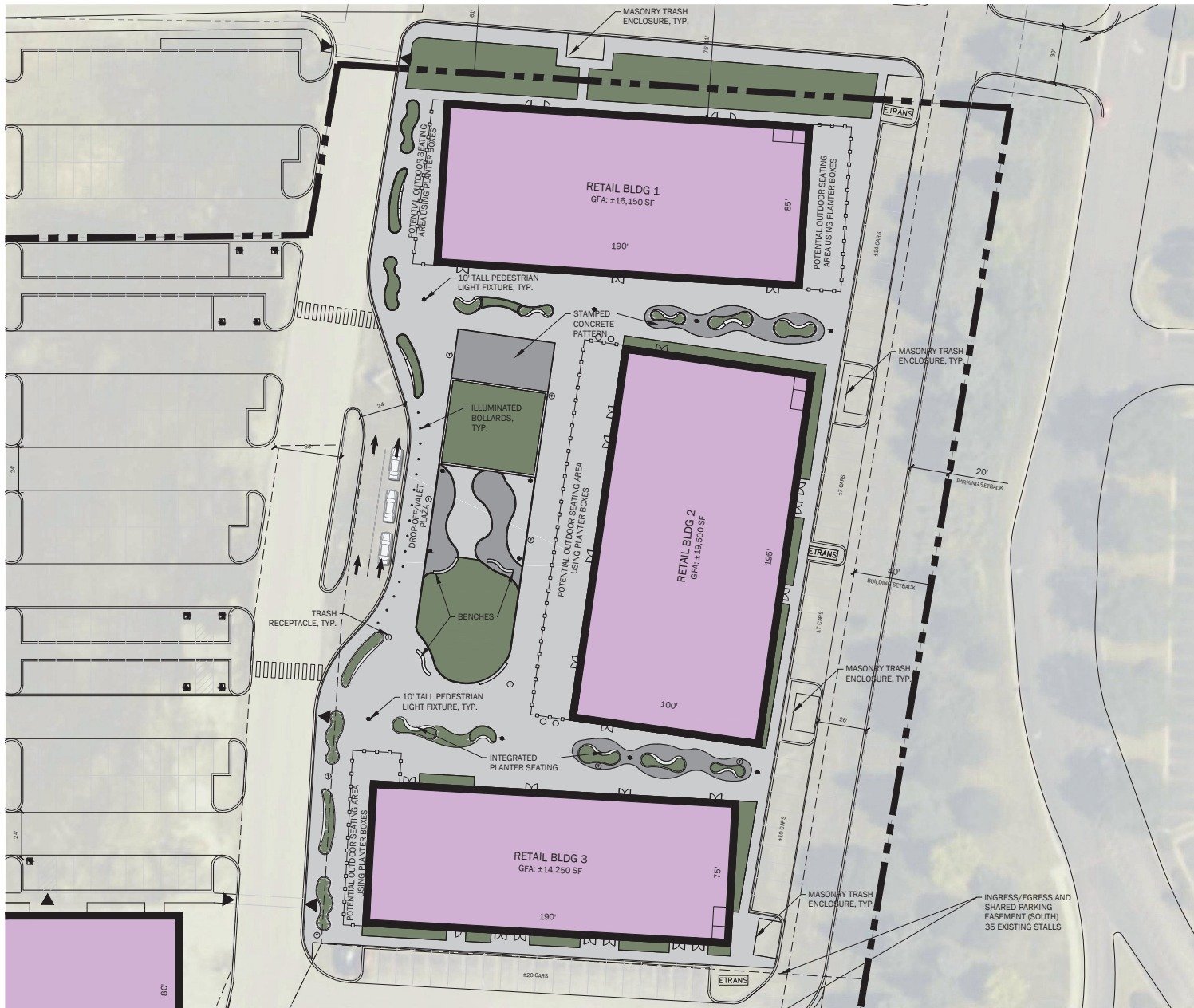


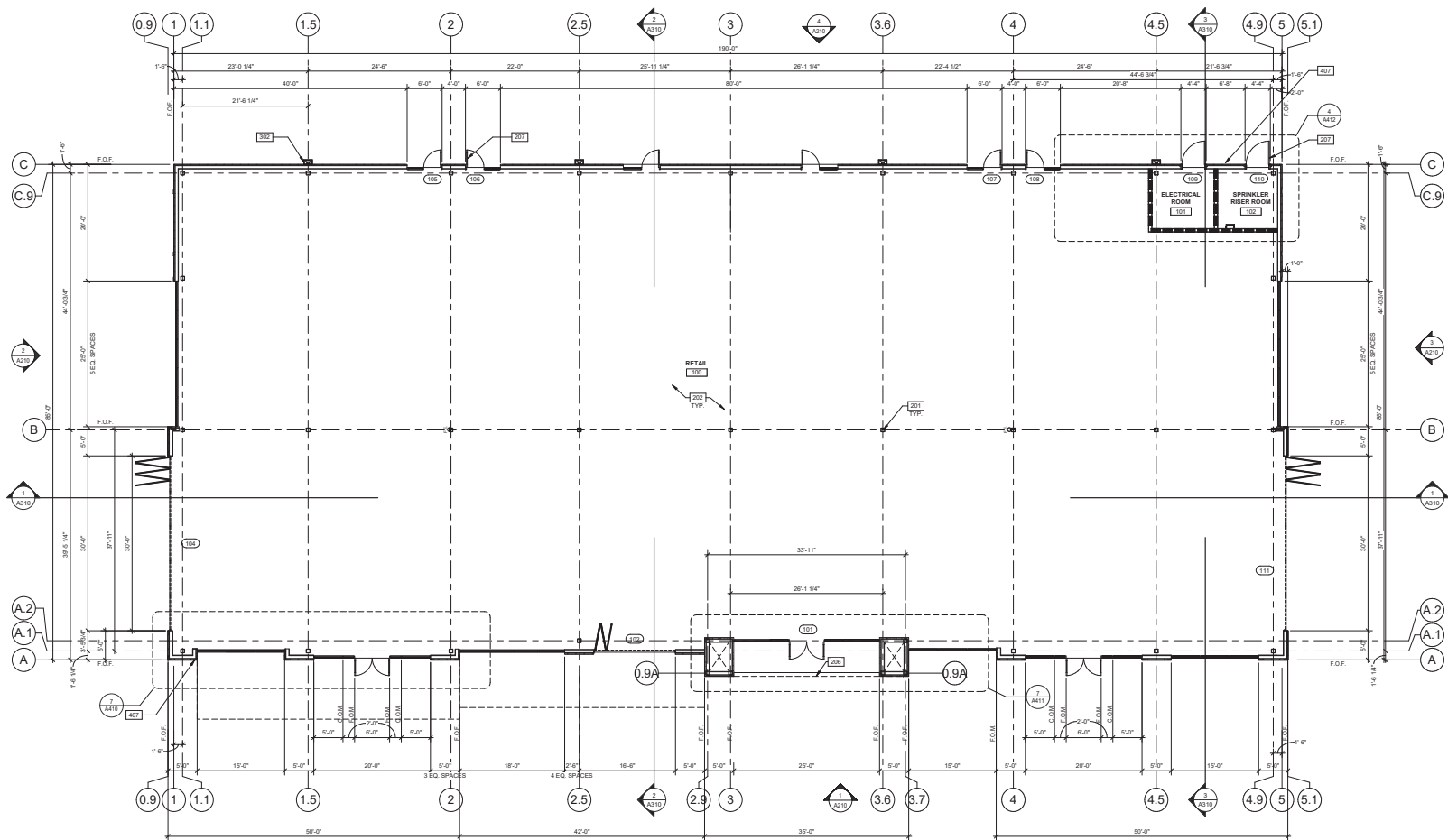
FOX HAVEN SQUARE

ST. CHARLES, ILLINOIS

WARE MALCOMB
STATE OF ILLINOIS DESIGN FIRM REGISTRATION NO. 194-004069

CHI23-0124-00
JULY 1, 2024

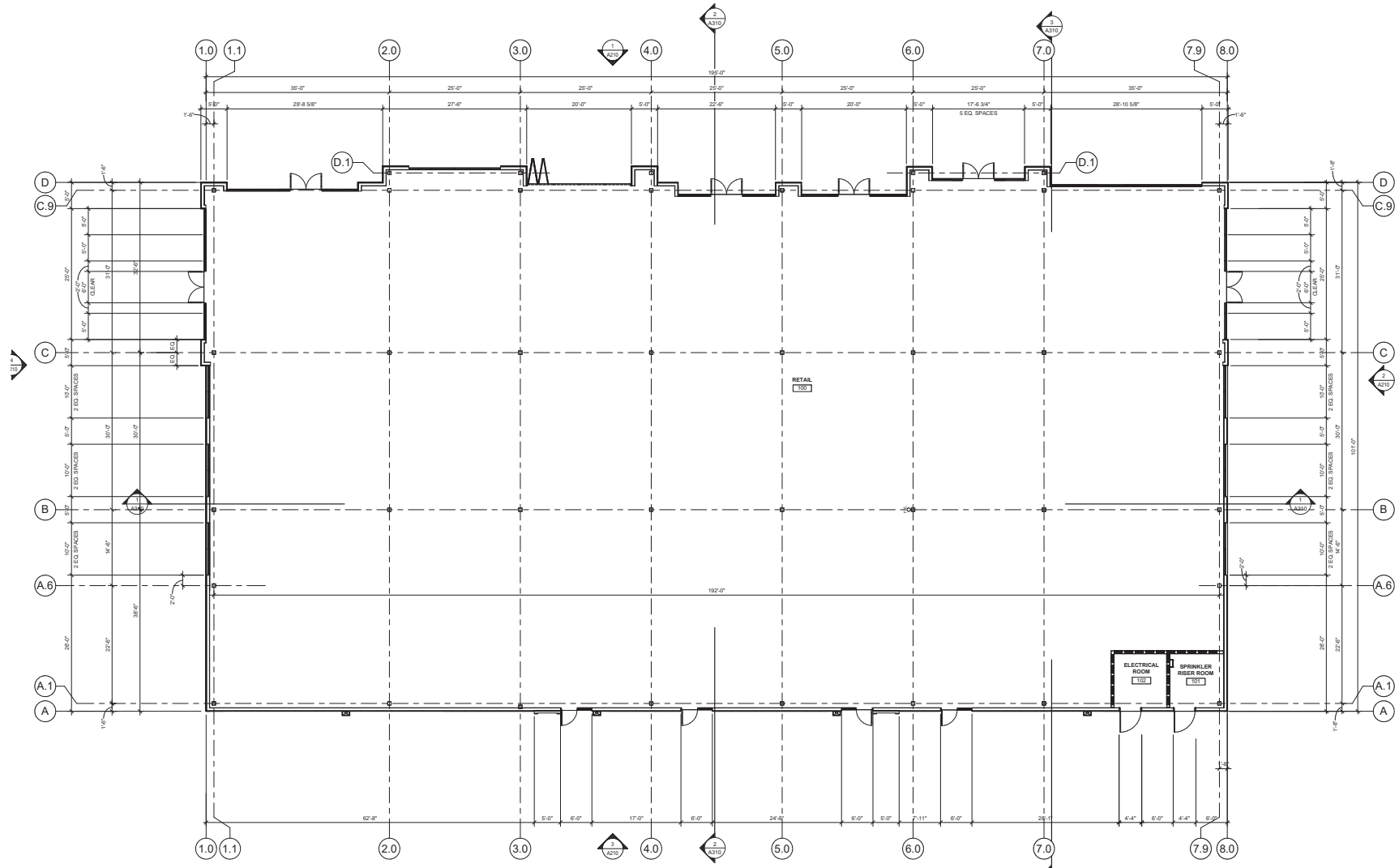


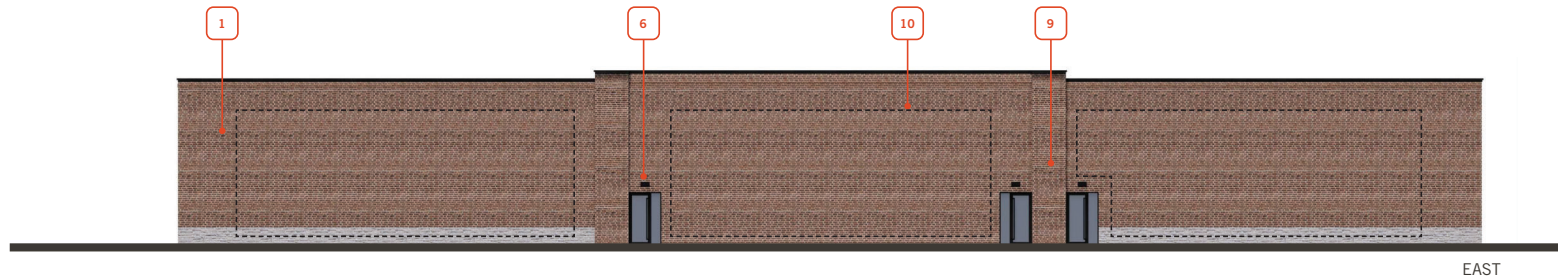
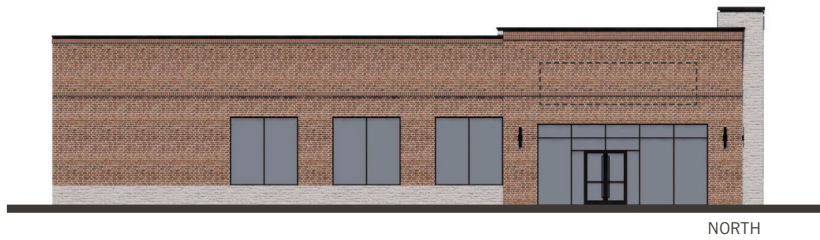




KEYNOTES

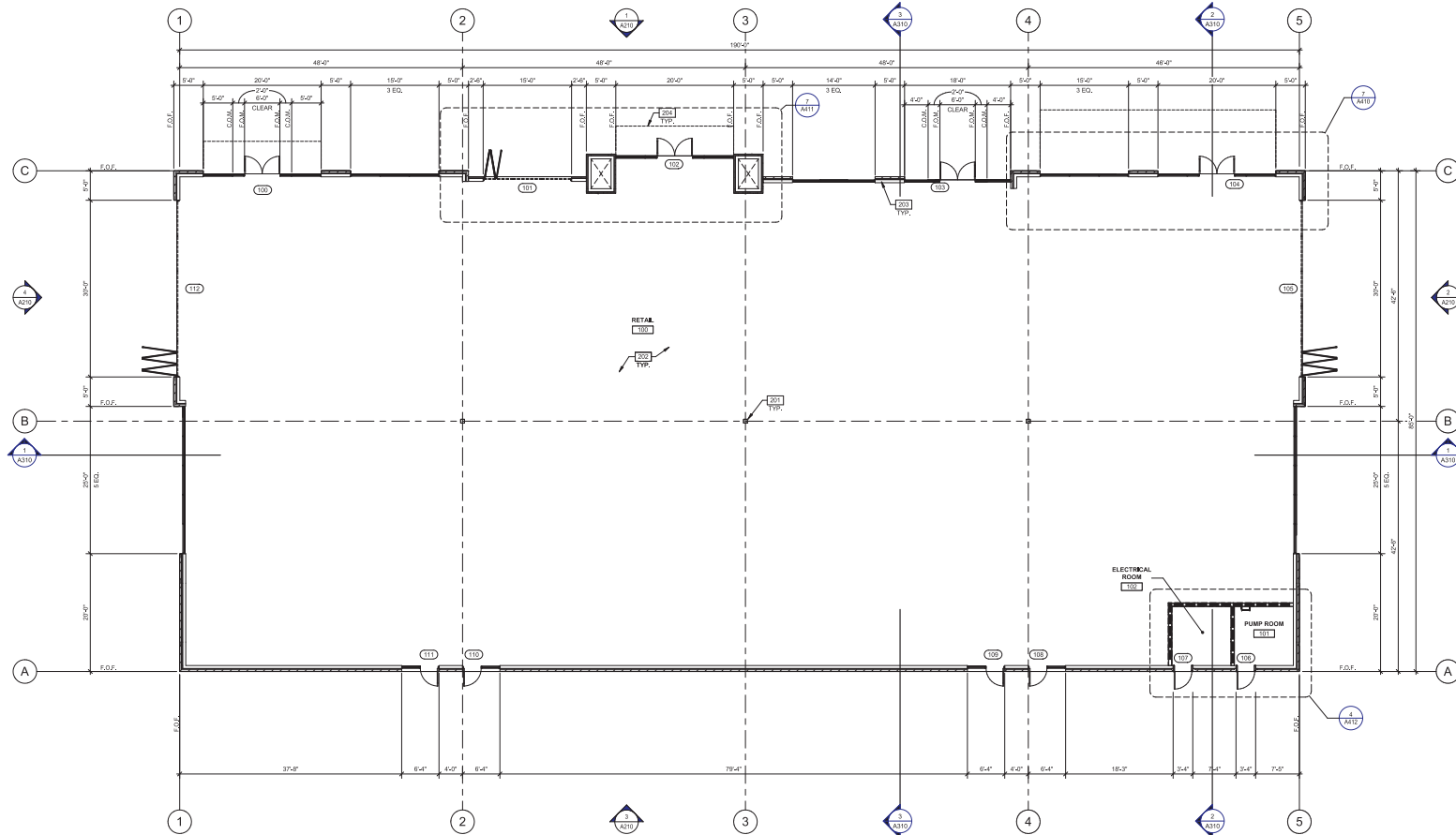
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2	BRICK - DARK TONE	5	ALUMINUM STOREFRONT DARK FINISH	8	WOOD VENEER ACCENT		
3	STACKED STONE VENEER	6	EXTERIOR LIGHTING	9	BRICK EXPRESSION		

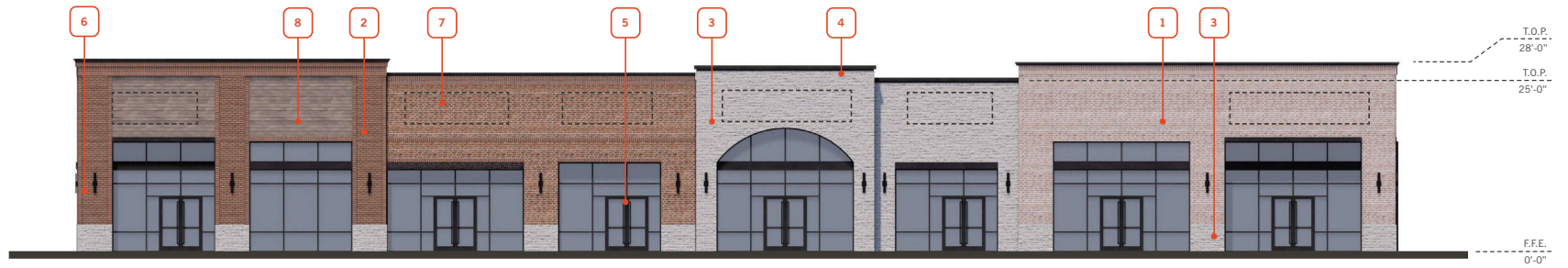




KEYNOTES

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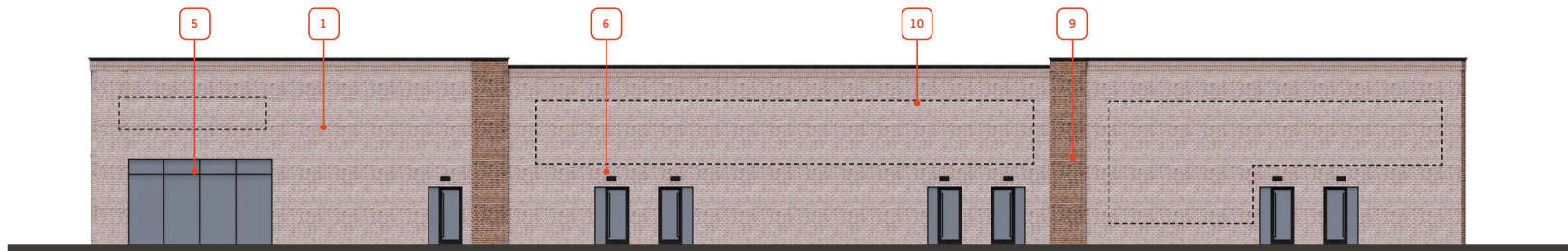
NORTH



EAST



WEST



SOUTH

KEYNOTES

- | | | | |
|-------------------------------|--|---|---|
| 1 BRICK - MIDDLE TONE | 4 ALUMINUM PRE-FINISHED COPING
DARK FINISH | 7 POTENTIAL LOCATION FOR SIGNAGE | 10 POTENTIAL LOCATION(S) FOR ART MURAL |
| 2 BRICK - DARK TONE | 5 ALUMINUM STOREFRONT
DARK FINISH | 8 WOOD VENEER ACCENT | |
| 3 STACKED STONE VENEER | 6 EXTERIOR LIGHTING | 9 BRICK EXPRESSION | |



NORTH



EAST



WEST



SOUTH

KEYNOTES

- 1 ALUMINUM STOREFRONT
WHITE MULLIONS
- 2 PREFINISHED METAL PANEL
LIGHT/WHITE
- 3 STACKED STONE VENEER



NORTH



EAST



WEST



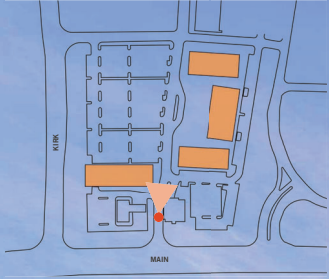
SOUTH

KEYNOTES

- 1 ALUMINUM STOREFRONT
WHITE MULLIONS
- 2 PREFINISHED METAL PANEL
LIGHT/WHITE
- 3 STACKED STONE VENEER

























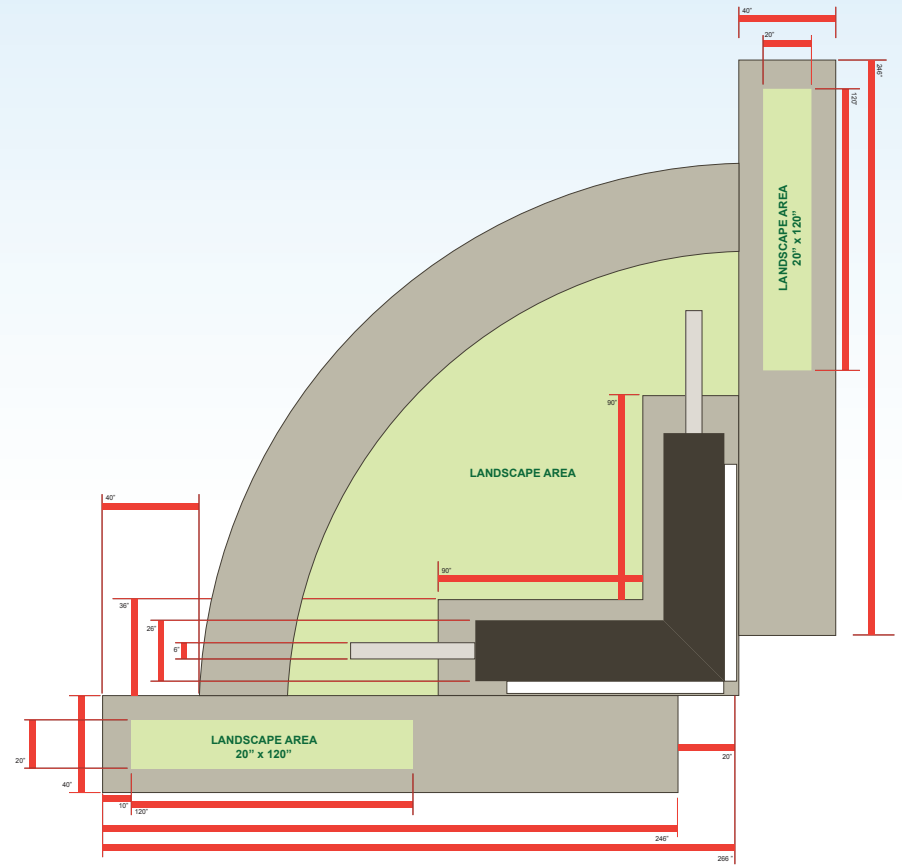


Fox
Haven
Square

30
20
10



MAIN "V" SIGN
TOP VIEW



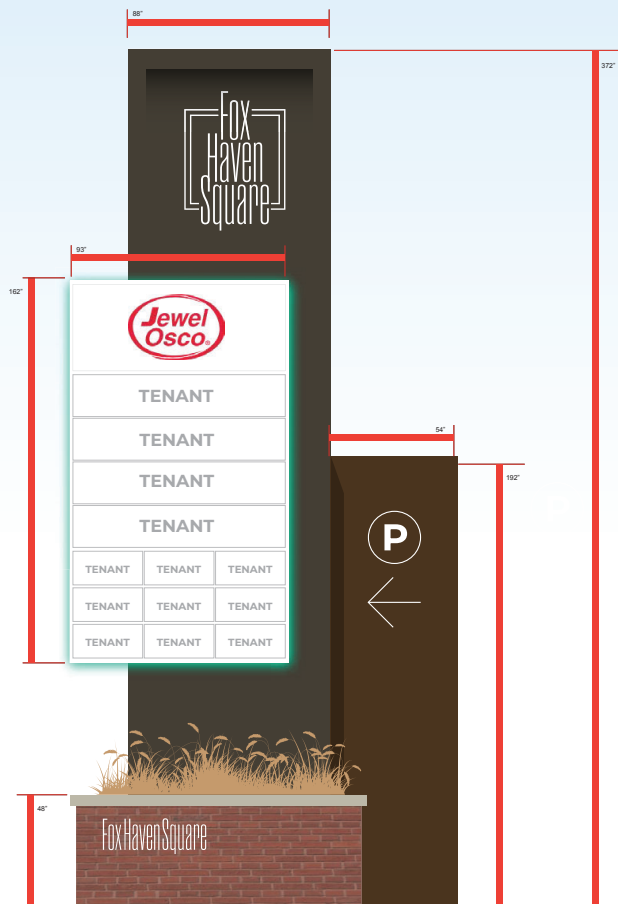
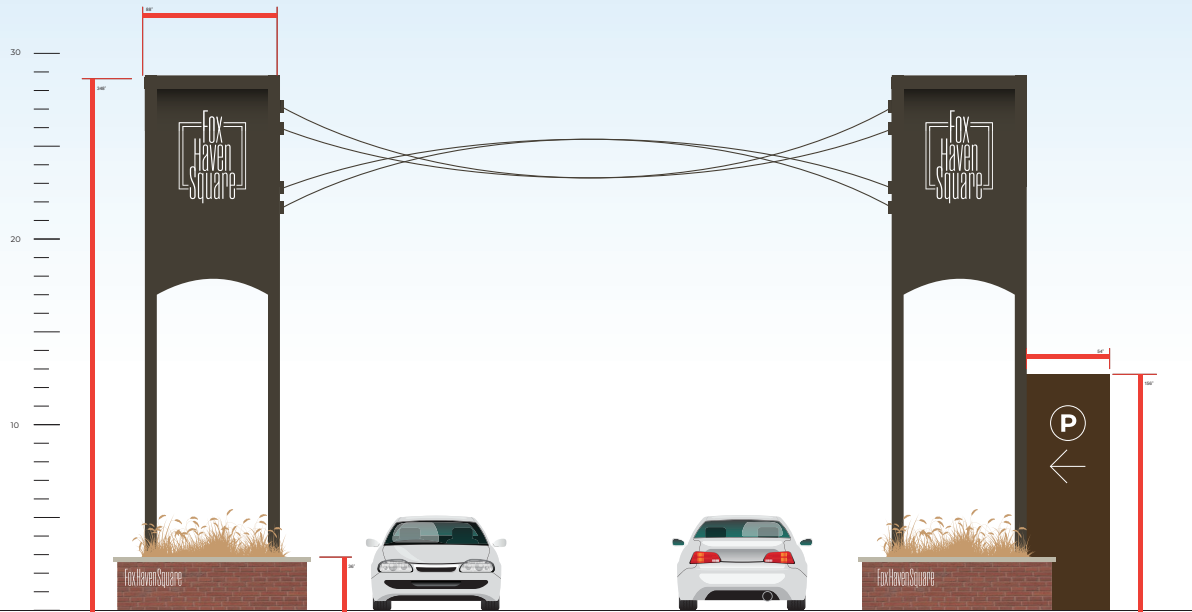


Diagram illustrating the layout of a 96' x 12' deck. The deck is divided into three main sections:

- Top Section:** A light green area labeled "LANDSCAPE AREA 88' x 23'".
- Bottom Section:** A light green area labeled "LANDSCAPE AREA 88' x 23'".
- Central Section:** A dark brown area, likely a hot tub or spa, measuring 64' x 23'.

Dimensions are indicated by red lines and text:

- Overall Deck Dimensions:** 96' (width) and 12' (depth).
- Top Section Dimensions:** 20' (width) and 20' (depth).
- Central Section Dimensions:** 64' (width) and 23' (depth).
- Bottom Section Dimensions:** 20' (width) and 20' (depth).



ENTRY
ARCH
TOP VIEW

